

**BEFORE THE
PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA**

DOCKET NO. 2018-1-E

In the Matter of
Annual Review of Base Rates
for Fuel Costs for
Duke Energy Progress, LLC

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**DIRECT TESTIMONY OF
KENDRA A. WARD FOR DUKE
ENERGY PROGRESS, LLC**

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Kendra A. Ward, and my business address is 550 South Tryon Street,
3 Charlotte, North Carolina.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am a Rates Manager supporting both Duke Energy Progress, LLC (“DEP” or the
6 “Company”) and Duke Energy Carolinas, LLC (“DEC”) (collectively, the
7 “Companies”).

8 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**
9 **PROFESSIONAL EXPERIENCE.**

10 A. I have a Bachelor of Arts degree in Political Science and Economics from the
11 University of North Carolina at Chapel Hill and a Masters in Accounting from
12 Appalachian State University. I am a certified public accountant licensed in the
13 State of North Carolina. I began my career in 2004 with Cherry, Bekaert &
14 Holland, LLP as a staff auditor. From 2006 until 2013 I held various financial
15 accounting and reporting roles at Cherry, Bekaert and Holland, LLP; Wachovia
16 Bank (now known as Wells Fargo) and The Shaw Group, Inc. (now known as
17 CB&I). In 2013, I started at Duke Energy as Lead Accounting Analyst and held a
18 variety of positions in the finance organization. I joined the Rates Department in
19 2016 as Manager, Rates and Regulatory Filings.

20 **Q. HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR**
21 **PROCEEDINGS?**

1 A. Yes. I testified before the Public Service Commission of South Carolina
2 (“PSCSC” or “Commission”) in DEP’s 2017 fuel and environmental cost
3 recovery proceeding in Docket No. 2017-1-E.

4 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

5 A. The purpose of my testimony is to provide DEP’s actual fuel, capacity related
6 costs including Public Utility Regulatory Policies Act of 1978 (“PURPA”) capacity,
7 environmental, and Distributed Energy Resource Program (“DERP”) cost data for
8 March 1, 2017 through February 28, 2018 (the “review period”), the projected fuel,
9 capacity related costs, environmental and DERP cost information for March 1, 2018
10 through June 30, 2018 (the “forecast period”), and DEP’s proposed fuel factors by
11 customer class for July 1, 2018 through June 30, 2019 (the “billing period”). I will
12 provide fifteen exhibits to support my testimony.

13 **Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA FOR THE REVIEW PERIOD?**

14
15 A. Actual test period kilowatt hour (“kWh”) generation, kilowatt (“kW”) and kWh
16 sales, fuel-related revenues, fuel-related expenses, and DERP revenues and
17 expenses were taken from DEP’s books and records. These books, records, and
18 reports of DEP are subject to review by the appropriate regulatory agencies in the
19 three jurisdictions that regulate DEP’s electric rates.

20 In addition, independent auditors perform an annual audit to provide
21 assurance that, in all material respects, internal accounting controls are operating
22 effectively and DEP’s financial statements are accurate.

23 **Q. DOES DEP PURCHASE POWER AND HOW ARE THESE COSTS**

1 **RECORDED?**

2 A. Yes. The Company continuously evaluates purchasing power if it can be reliably
3 procured and delivered at a price that is less than the variable cost of DEP's
4 generation. In accordance with S.C. Code Ann. § 58-27-865(A), DEP recovers
5 from its South Carolina retail customers an amount that is the lower of the
6 purchase price or DEP's avoided variable cost for generating an equivalent
7 amount of power for its economy purchases. The Company also engages in
8 economy purchases (and economy sales) with DEC as a result of the Joint
9 Dispatch Agreement.

10 The Company also purchases power from certain suppliers that are treated
11 as firm generation capacity purchases. In accordance with S.C. Code Ann. § 58-
12 27-865(A)(2)(a), all amounts paid to these suppliers are recorded as recoverable
13 fuel costs with the exception of capacity charges.

14 Finally, the Company routinely purchases power from qualifying facilities
15 under PURPA. According to revisions in Act 236 that are set forth in S.C. Code
16 Ann. § 58-27-865(A), the avoided cost payments for such purchases are included
17 in fuel recoverable from South Carolina retail customers. In addition, Act 236
18 also made revisions to § 58-27-865(A)(1) relating to the allocation of any capacity
19 costs that are recovered under the fuel factor.

20 **Q. PLEASE EXPLAIN WARD EXHIBIT NO. 1.**

21 A. Ward Exhibit No. 1 is a summary of DEP's recommended fuel rate components
22 for the billing period. The components include amounts for (1) capacity related
23 costs, (2) DERP avoided costs, (3) variable environmental costs, (4) DERP

1 incremental costs, and (5) all other fuel costs, which are referred to as “base” fuel
2 costs. Ward Exhibit No. 1 presents proposed fuel rates for residential customers
3 including an amount added to account for the 5% discount provided to residential
4 customers under DEP’s SC Residential Service Energy Conservation Discount
5 Rider RECD-2C. As shown on Ward Exhibit No. 6, this discount impacts
6 approximately 15% of DEP’s South Carolina residential sales. These fuel rate
7 components are supported by Ward Exhibit Nos. 2 through 14 and are
8 individually discussed further in my testimony. The following table shows the
9 rates and monthly charges proposed by the Company in this proceeding as
10 reflected in Ward Exhibit No. 1. As reflected in the table, the DERP incremental
11 cost component is computed as a dollar amount per customer account since these
12 amounts are subject to per-account cost caps established by Act 236. All other
13 fuel components are computed as a rate per kWh or rate per kW depending on the
14 particular customer class.

Description	Customer Class			
	Cents / kWh			
	Residential	General Service (Non-demand)	Lighting	General Service (Demand)
Base Fuel Costs				
Base Fuel Cost Component (Over) / Under Collection at June 2018	0.337	0.337	0.337	0.337
Base Fuel Cost Component Projected Billing Period	2.029	2.029	2.029	2.029
Total Base Fuel Cost Component	2.366	2.366	2.366	2.366
Total Base Fuel Cost Component Increased for RECD	2.384			
Capacity Related Cost				
	Cents / kWh			Cents / kW
Capacity Related Cost Component (Over) / Under Collection at June 2018	0.095	0.000	0.000	1
Capacity Related Cost Component Projected Billing Period	0.581	0.426	0.000	87
Total Capacity Related Cost Component	0.676	0.426	0.000	88
Total Capacity Related Cost Component Increased for RECD	0.681			
Distributed Energy Resource Program Avoided Costs				
	Cents / kWh			Cents / kW
DERP Avoided Cost (Over) / Under Collection at June 2018	0.001	0.001	0.000	0
DERP Avoided Costs Projected Billing Period	0.002	0.002	0.000	0
Total DERP Avoided Cost Component	0.003	0.003	0.000	0
Total DERP Avoided Cost Component Increased for RECD	0.003			
Environmental Costs				
	Cents / kWh			Cents / kW
Environmental Component (Over) / Under Collection at June 2018	(0.017)	(0.019)	N/A	(4)
Environmental Component Projected Billing Period	0.036	0.027	N/A	5
Total Environmental Component	0.019	0.008	N/A	1
Total Environmental Cost Component Increased for RECD	0.019			
Total Fuel Cost Factor - Cents/kWh	3.087	2.803	2.366	2.366
Total Demand Fuel Cost Factor - Cents/ kW				89
Dollars				
	Residential	Commercial	Industrial	
Distributed Energy Resource Program Incremental Cost per Account				
Total DERP Annual Charge -Including GRT	\$ 8.65	\$ 15.28	\$ 1,200.00	
Total DERP Monthly Charge - Including GRT	\$ 0.72	\$ 1.27	\$ 100.00	

Pursuant to Act 236, the capacity components and the DERP avoided cost components are shown separately. Act 236 also requires that capacity costs and avoided costs of distributed energy resource programs be allocated and recovered among customer classes using the same method that is used to allocate and recover variable environmental costs.

In addition, Ward Exhibit No. 1 includes the projected per-account charge per month of \$0.72, \$1.27 and \$100.00, including Gross Receipts Tax ("GRT"), for South Carolina Residential, General Service, and Industrial customers, for the recovery of 100% of the DERP incremental costs, in accordance with S.C. Code

1 Ann. § 58-27-865(A)(1). The DERP incremental cost component is shown
2 separately because Act 236 requires that incremental costs of DERP be allocated
3 among customer classes using the same method that is used to allocate variable
4 environmental costs.

5 **Q. HOW DID DEP'S FUEL REVENUE BILLINGS COMPARE TO THE**
6 **FUEL COSTS INCURRED DURING THE MARCH 2017 TO JUNE 2018**
7 **TIME PERIOD?**

8 A. Ward Exhibit No. 2 is a monthly comparison of fuel revenues billed to South
9 Carolina retail customers to the actual and estimated jurisdictional fuel costs
10 attributable to those sales. As shown on Exhibit 2, the projected DEP fuel
11 recovery status at June 30, 2018 is an under-recovery of \$22.5 million.

12 **Q. PLEASE EXPLAIN WARD EXHIBIT NO. 3.**

13 A. Ward Exhibit No. 3 presents DEP's recommended projected base fuel rate of
14 2.029¢/kWh for the billing period for the recovery of South Carolina's retail share
15 of \$1.3 billion of projected system fuel expense. The South Carolina retail share
16 also incorporates the NEM avoided fuel benefits assigned fully to SC customers.

17 The fuel forecast supporting the projected fuel cost was generated by an
18 hourly dispatch model that considers the latest forecasted fuel prices, outages at
19 the generating plants based on planned maintenance and refueling schedules,
20 forced outages based on historical trends, generating unit performance
21 parameters, and expected market conditions associated with power purchase and
22 off-system sales opportunities. In addition, the forecasting model reflects the
23 joint dispatch of the combined power supply resources of the DEC and DEP.

1 **Q. PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COST**
2 **COLLECTION AND EXPLAIN HOW THESE COSTS HAVE BEEN**
3 **TREATED IN THIS FILING.**

4 A. During the review period, DEP recovered variable environmental costs and the
5 costs of emission allowances through the environmental component of the fuel
6 rate. Environmental costs allocated to the South Carolina retail jurisdiction
7 during the review period were approximately \$1.4 million, as shown by month on
8 Ward Exhibit No. 4. The Company currently estimates that its deferred
9 environmental cost balance will be an over-collection of \$775,000 at June 30,
10 2018.

11 **Q. HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?**

12 A. Yes, Ward Exhibit No. 5 presents DEP's estimated system environmental costs
13 for the billing period of \$13.3 million. The South Carolina retail portion is
14 forecasted to be approximately \$1.4 million.

15 **Q. PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEP**
16 **WILL INCLUDE IN THE PROPOSED FUEL RATE IN THIS FILING.**

17 A. As Company witness Miller explains more specifically in his testimony, DEP uses
18 emission-reducing chemicals at its fossil/hydro plants to help it provide low cost,
19 reliable electric generation for its customers while also complying with state and
20 federal environmental control obligations. As a result, DEP has included the cost
21 of magnesium hydroxide, calcium carbonate, ammonia, urea, limestone, lime and
22 hydrated lime incurred during the review period in its fuel cost recovery
23 application. Mercury and Air Toxics Standards ("MATS") chemicals that DEP

1 may use in the future to reduce emissions include, but may not be limited to,
2 activated carbon, mercury oxidation chemicals, and mercury re-emission
3 prevention chemicals.

4 **Q. HOW DID DEP ALLOCATE ENVIRONMENTAL COSTS?**

5 A. Environmental costs were allocated to Residential, General Service (Non-
6 demand), and General Service (Demand) rate classes based upon the firm
7 coincident peak demand experienced. The 2016 firm coincident peak demand
8 was used to allocate costs for the period March 2017 – December 2017 and the
9 2017 firm coincident peak demand was used to allocate costs for the period
10 January 2018 – June 2019. This allocation is shown on Ward Exhibit Nos. 4 and
11 5.

12 Rates were designed based on costs allocated to the respective rate
13 classes and the projected energy consumption (in kWh) for the Residential and
14 General Service (Non-demand) schedules. The rate for the General Service
15 (Demand) class was based on projected annual demand (in kW). All allocations
16 were consistent with the methodology approved by this Commission in Order No.
17 2007-440, issued in DEP's 2007 fuel review proceeding. This methodology has
18 been consistently used in each fuel case since the issuance of the 2007 Order.

19 **Q. PLEASE PROVIDE A STATUS UPDATE OF CAPACITY RELATED**
20 **COSTS COLLECTION AND EXPLAIN HOW THESE COSTS HAVE**
21 **BEEN TREATED IN THIS FILING?**

22 A. During the review period, DEP recovered capacity costs, including PURPA
23 purchased power capacity costs, as well as natural gas transportation (pipeline

1 reservation/lease costs) and storage costs. Capacity costs allocated to the South
2 Carolina retail jurisdiction during the review period were approximately \$16.0
3 million, as shown on Ward Exhibit No. 7. The Company currently estimates that
4 its deferred capacity cost balance of June 2018 will be an under-recovery of \$2.3
5 million. As a result of changes made in S.C. Code Ann. § 58-27-865(A)(1) by
6 Act 236, the avoided capacity component of costs are to be allocated and
7 recovered from customers under a separate capacity component of the overall fuel
8 factor based on the same method that is used by the utility to allocate and
9 recovery variable environmental costs.

10 **Q. PLEASE EXPLAIN WARD EXHIBIT NO. 8.**

11 A. Ward Exhibit No. 8 presents DEP's estimated system capacity related costs,
12 including PURPA purchased power capacity costs, as well as natural gas
13 transportation (pipeline reservation/lease costs) and storage costs, for the billing
14 period of \$211.0 million. The South Carolina retail portion is forecasted to be
15 approximately \$22.6 million.

16 **Q. HOW DID DEP ALLOCATE CAPACITY COSTS?**

17 A. Capacity costs were allocated to Residential, General Service (Non-demand), and
18 General Service (Demand) rate classes based upon the firm coincident peak
19 demand. The 2016 firm coincident peak demand was used to allocate costs for
20 the period March 2017 – December 2017 and the 2017 firm coincident peak
21 demand was used to allocate costs for the period January 2018 – June 2019. This
22 allocation is shown on Ward Exhibit Nos. 7 and 8.

1 **Q. ARE DERP COSTS AND ASSOCIATED REVENUES INCLUDED IN**
2 **THIS FUEL FILING?**

3 A. Yes. Pursuant to S.C. Code Ann. § 58-39-130(A)(2), an electrical utility shall be
4 permitted to recover its costs related to its approved DERP. The Commission
5 approved DEP's recovery of DERP costs in Order No. 2015-843. Beginning in
6 January 2016, revenues were collected from customers on a per account basis, and
7 Ward Exhibit Nos. 9-14 provide details regarding the allocation and recovery of
8 the DERP costs.

9 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 9.**

10 A. Ward Exhibit No. 9 provides DEP's actual DERP incremental cost for the review
11 period and the estimated DERP incremental cost for the estimated period by
12 month. Incremental costs that were exclusively assigned to the South Carolina
13 retail jurisdiction, during the review period were approximately \$1.6 million¹ and
14 \$729,000 for the estimated period. Ward Exhibit No. 9 also computes a monthly
15 (over)/under recovery of DERP incremental costs by comparing the actual and
16 estimated expenses incurred during the review period and the estimated period to
17 the revenue collected or estimated during the actual and estimated period. As
18 shown on Exhibit 9, the projected DERP incremental cost recovery status at June
19 30, 2018 is an approximate over-recovery of \$736,000.

20 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 10.**

21 A. Ward Exhibit No. 10 establishes the monthly charges by customer class for
22 incremental DERP (over)/under recovery. DEP proposes the per-account monthly
23 decrement for over-recovery of \$0.26 \$0.46 and \$39.16 for South Carolina

¹ The \$1.6 million includes the adjustments listed in line item 28.

1 Residential, Commercial (General Service/Lighting) and Industrial customers,
2 excluding GRT.

3 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 11.**

4 **A.** Ward Exhibit No. 11 provides DEP's projected DERP incremental cost for the
5 billing period of \$2.8 million.

6 **Q. WHAT INCREMENTAL COSTS ARE INCLUDED ON WARD EXHIBIT**
7 **NOS. 9 AND 11?**

8 **A.** S.C. Code Ann. § 58-39-140 defines "incremental costs" as all reasonable and
9 prudent costs incurred by an electrical utility to implement a distributed energy
10 resource program. This filing includes the following categories of incremental
11 costs:

- 12 • Costs associated with purchase power agreements ("PPA") in excess of
13 the Company's avoided cost rate;
- 14 • The DERP net energy metering ("NEM") Incentive, which is a credit
15 available to eligible NEM customer-generators, approved in Docket No.
16 2014-246-E;
- 17 • Avoided capacity costs associated with NEM, recoverable as an
18 incremental cost based on Section 58-40-20(F)(6);
- 19 • Rebates given to residential and non-residential customers to invest in or
20 lease distributed generation and carrying costs related to the amortization
21 of the rebate amounts;
- 22 • An incentive utilized to lower the subscription charge customers will pay
23 to participate in a Shared Solar program;

1 allocated portion of incremental costs will be divided by the number of accounts
2 subject to DERP in each class. This method results in an annual dollar per
3 account charge for all accounts subject to DERP in each class. The annual charge
4 is a separate fixed monthly component of the fuel factor for each class of
5 customer.

6 One exception to this approach is the allocation of the avoided capacity
7 costs associated with NEM that is included in the DERP incremental costs. This
8 particular incremental cost has been allocated to South Carolina retail based on its
9 pro rata share of system peak demand, rather than 100%. This DERP cost is
10 related to system generation supply resources. Costs and benefits associated with
11 system generation supply resources are traditionally allocated among all of the
12 Company's rate jurisdictions since such generation supply resources are operated
13 as a portfolio to serve its native load customers in all rate jurisdictions.

14 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 12.**

15 A. Ward Exhibit No. 12 shows the calculation of the prospective per-account charge
16 by customer class in order for DEP to recover DERP forecasted incremental costs.
17 DEP has estimated per-account charges per month of \$0.98, \$1.73 and \$146.47
18 for South Carolina Residential, Commercial and Industrial customers, excluding
19 GRT. Proposed rates are subject to per-account cost caps.

20 **Q. HOW HAS THE COMPANY TREATED UNDER-COLLECTED DERP**
21 **INCREMENTAL COSTS RESULTING FROM REACHING THE PER**
22 **ACCOUNT COST CAP IN THE COMPANY'S 2017 FUEL**
23 **PROCEEDING?**

1 A. In the Company's 2017 fuel proceeding, Docket No. 2017-1-E, the Residential
2 and Industrial customer classes reached the per-account cost cap set forth in S.C.
3 Code Ann. § 58-39-150. As a result, the DERP-related rates were limited to a
4 monthly per-account charge of \$1.00 for South Carolina Residential customers
5 and \$100.00 for South Carolina Industrial customers, including GRT. Consistent
6 with Docket No. 2015-53-E, Order No. 2015-514, the Company reallocates cost
7 in excess of the per-account cost caps among all customer classes with carrying
8 costs applied at the three-year treasury rate plus 65 basis points. Carrying costs
9 calculated on the under-collected balance are shown as a separate incremental
10 cost on Exhibit 9.

11 **Q. HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER**
12 **ACCOUNT CAP IN THIS FILING?**

13 A. Yes, the Industrial customer class has reached the per-account cap in this filing.
14 As a result, we have limited the proposed rates to a per-account per month charge
15 of \$100.00 for South Carolina industrial customers, including GRT.

16 **Q. WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING?**

17 A. Avoided cost generally refers to the cost the utility avoids when buying power
18 from another entity rather than generating the power itself. Under PURPA,
19 payments made to qualifying facilities for power are based on avoided cost rates.
20 In the DERP context, S.C. Code Ann. §58-39-140(A)(1) states that "avoided cost"
21 for purposes of separating total DERP program costs between incremental and
22 avoided costs is "all costs paid under avoided cost rates, or negotiated rates
23 pursuant to PURPA, which ever is lower." In S.C. Code Ann. § 58-39-120(B),

1 avoided costs are further defined, indicating that they are to be rates most recently
2 approved by the Commission, or negotiated pursuant to PURPA.

3 **Q. HOW WILL THE COMPANY ALLOCATE AND RECOVER ITS DERP**
4 **AVOIDED COSTS?**

5 A. DEP plans to allocate and recover DERP avoided costs based on the same method
6 that is used by the utility to allocate and recover variable environmental costs. As
7 such, DEP will allocate the South Carolina Retail portion of DERP avoided costs
8 to Residential, General Service (Non-demand), General Service (Demand) and
9 Lighting rate classes based upon the firm peak experienced by each class during
10 the review period. The total cost allocated to each class is divided by projected
11 sales to arrive at a cents per kWh or kW, depending on customer class.

12 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON WARD EXHIBIT NO. 13.**

13 A. Ward Exhibit No. 13 shows the calculation of the (over)/under recovery by
14 customer class of total DERP avoided energy and capacity costs. Avoided energy
15 and capacity costs allocated to the South Carolina retail jurisdiction during the
16 review period were approximately \$25,000, as shown by month on Ward Exhibit
17 No. 13. The Company currently estimates that its deferred environmental cost
18 balance will be an under-collection of \$29,000 at June 30, 2018.

19 **Q. HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS IN**
20 **WARD EXHIBIT NO. 14?**

21 A. Yes, Ward Exhibit No. 14 provides DEP's projected DERP avoided cost for the
22 billing period of \$803,000. The South Carolina retail portion is forecasted to be
23 approximately \$86,000.

1 **Q. DO YOU BELIEVE DEP'S ACTUAL FUEL COSTS AND DERP COSTS**
2 **INCURRED DURING THE PERIOD WERE REASONABLE?**

3 A. Yes. I believe the costs were reasonable and that DEP has demonstrated that it
4 has met the criteria set forth in S.C. Code Ann. § 58-27-865. These costs also
5 reflect DEP's continuing efforts to maintain reliable service and an economical
6 generation mix, thereby minimizing the total cost of providing service to DEP's
7 South Carolina retail customers. I also believe that the DERP costs were
8 reasonable and that DEP has demonstrated that it met the criteria set forth in S.C.
9 Code Ann. § 58-39-130(A)(2).

10 **Q. WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL**
11 **FACTOR?**

12 A. A number of factors contribute to the change in the proposed total fuel cost
13 factors for all customer classes. Total base fuel costs projected for the billing
14 period are increasing primarily due to an under-collection of fuel costs included in
15 the 2018 proposed base fuel rates that is larger than the under-collection reflected
16 in existing rates.

17 **Q. INCLUDING THE DERP INCREMENTAL PER ACCOUNT CHARGES,**
18 **WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED**
19 **FUEL COST, CAPACITY COST, DERP AVOIDED COST, AND**
20 **ENVIROMENTAL COST FACTORS ARE APPROVED BY THE**
21 **COMMISSION?**

22 A. The impact of all components of this filing to customers' monthly bills of an
23 average Residential customer using 1000 kWh per month is an increase of \$3.24, or

1 2.7%. The impacts for General Service (Non-demand), Lighting and General
2 Service (Demand) vary by customer, but are approximately of 0.1%, 0.3% and
3 1.80%, respectively.

4 **Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

5 A. Yes, it does.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF TOTAL FUEL COMPONENT
BILLING PERIOD JULY 1, 2018 TO JUNE 30, 2019

Exhibit 1
DOCKET NO 2018-1-E

Line No.	Description	Reference	Customer Class			
			Residential	General Service (Non-demand)	Lighting	General Service (Demand)
Base Fuel Costs						
1	Base Fuel Cost Component (Over) / Under Collection at June 2018	Exhibit 2	0.337	0.337	0.337	0.337
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	2,029	2,029	2,029	2,029
3	Total Base Fuel Cost Component	Line 1 + Line 2	2,366 [1]	2,366	2,366	2,366
4	Total Base Fuel Cost Component Increased for RECD	Line 3 / (1-RECD factor)	2,384			
Capacity Related Cost						
5	Capacity Related Cost Component (Over) / Under Collection at June 2018	Exhibit 7	0.095	0.000	0.000	0.000
6	Capacity Related Cost Component Projected Billing Period	Exhibit 8	0.581	0.426	0.000	0.000
7	Total Capacity Related Cost Component	Line 5 + 6	0.676 [1]	0.426	0.000	0.000
8	Total Capacity Related Cost Component Increased for RECD	Line 7 / (1- RECD factor)	0.681			88 [2]
Distributed Energy Resource Program Avoided Costs						
9	DERP Avoided Cost (Over) / Under Collection at June 2018	Exhibit 13	0.001	0.001	0.000	0
10	DERP Avoided Costs Projected Billing Period	Exhibit 14	0.002	0.002	0.000	0
11	Total DERP Avoided Cost Component	Line 9 + 10	0.003 [1]	0.003	0.000	0 [3]
12	Total DERP Avoided Cost Component Increased for RECD	Line 11 / (1- RECD factor)	0.003			
Environmental Costs						
13	Environmental Component (Over) / Under Collection at June 2018	Exhibit 4	(0.017)	(0.019)	N/A	(4)
14	Environmental Component Projected Billing Period	Exhibit 5	0.036	0.027	N/A	5
15	Total Environmental Component	Line 13 + 14	0.019 [1]	0.008	N/A	1 [4]
16	Total Environmental Cost Component Increased for RECD	Line 15 / (1- RECD factor)	0.019			
17	Total Fuel Cost Factor - Cents/ kWh [5]	Line 4 + Line 8 + Line 12 + Line 16	3.087	2.803	2.366	2.366
18	Total Demand Fuel Cost Factor - Cents/ kW [5]	Line 7 + Line 11 + line 15				89
Distributed Energy Resource Program Incremental Cost per Account						
DERP Incremental (Over) / Under Collection at June 2018						
19	Annual Charge	Exhibit 10	\$ (3.14)	\$ (5.55)	\$ (469.96)	
20	Monthly Charge	Exhibit 10	\$ (0.26)	\$ (0.46)	\$ (39.16)	
21	DERP Incremental Projected Billing Period					
21	Annual Charge	Exhibit 12	\$ 11.75	\$ 20.76	\$ 1,757.58	
22	Monthly Charge	Exhibit 12	\$ 0.98	\$ 1.73	\$ 146.47	
23	Total DERP Annual Charge - Excluding GRT	Line 19 + Line 21	\$ 8.61	\$ 15.21	\$ 1,194.64	
24	Total DERP Monthly Charge - Excluding GRT	Line 20 + Line 22	\$ 0.72	\$ 1.27	\$ 99.55	
25	Total DERP Annual Charge -Including GRT	Line 19 + Line 21 / (1-tax rate)	\$ 8.65	\$ 15.28	\$ 1,200.00	
26	Total DERP Monthly Charge -Including GRT	Line 20 + Line 22 / (1-tax rate)	\$ 0.72	\$ 1.27	\$ 100.00	

Notes:

- [1] RECD factor is .7385% and is calculated on Exhibit 6
- [2] The Capacity rate for these customers is 88 cents per kW as calculated on exhibits 7 & 8
- [3] The Distributed Energy Resource Programs Avoided Costs for these customers is 0 cents per kW as calculated on exhibits 13 & 14
- [4] The Environmental rate for these customers is 1 cent per kW as calculated on exhibits 4 & 5
- [5] The Fuel Cost Factors and Demand Fuel Cost Factor does not include GRT

	Dollars		
	Residential	Commercial	Industrial

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	Actual 2017		Actual 2017		Actual 2017		Actual 2017		Actual 2017		Review Period Ended Feb-18
			March 2017	April 2017	May 2017	June 2017	July 2017	August 2017					
1	Coal		\$ 23,248,964	\$ 15,506,919	\$ 12,450,251	\$ 31,845,248	\$ 50,492,822	\$ 44,041,625					
2	Gas		60,180,378	49,338,662	47,924,505	55,175,314	49,526,030	47,206,067					
3	Nuclear Fuel		11,488,531	13,356,563	18,174,539	35,166,921	18,347,834	18,279,977					
4	Purchased Power		38,739,130	35,166,921	29,346,795	33,926,455	32,888,614	34,863,883					
5	Fuel Expense Recovered Through Inter-system Sales		(7,384,809)	(6,120,816)	(7,819,960)	(7,261,277)	(9,576,684)	(11,346,433)					
6	Total Fuel Costs		\$ 126,271,594	\$ 107,247,279	\$ 100,075,130	\$ 131,328,390	\$ 141,678,616	\$ 133,045,319					
7	Eliminate Avoided Fuel Benefit of SC NEM		5,264	3,833	5,485	10,277	8,695	11,166					
8	Adjusted System Fuel Costs		\$ 126,276,858	\$ 107,251,111	\$ 100,080,615	\$ 131,338,667	\$ 141,687,311	\$ 133,056,485					
9	Total System KWH Sales		4,643,296,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580					
10	Eliminate NEM Solar Generation KWH		160,035	116,492	166,722	312,451	271,494	348,667					
11	Adjusted Projected System KWh Sales		\$ 4,643,556,062	\$ 4,187,757,890	\$ 4,764,466,873	\$ 5,213,477,217	\$ 6,176,954,768	\$ 5,920,457,247					
12	System Cost per KWH (C/RWH)		2.719	2.561	2.101	2.519	2.294	2.247					
13	SC Retail Sales KWH / Projected SC Retail Sales		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055					
14	Eliminate the NEM Impact		160,035	116,492	166,722	312,451	271,494	348,667					
15	Adjusted Projected SC Retail Sales (w/o solar)		436,006,233	447,407,006	534,198,850	491,986,158	640,352,355	574,518,722					
16	SC Base Fuel Costs		\$ 11,856,753	\$ 11,458,375	\$ 11,221,182	\$ 12,394,186	\$ 14,688,435	\$ 12,911,746					
17	Assign 100% of Avoided Fuel Benefit of SC NEM		(5,264)	(3,833)	(5,485)	(10,277)	(8,695)	(11,166)					
18	Adjusted SC Base Fuel Costs		\$ 11,851,489	\$ 11,454,542	\$ 11,215,697	\$ 12,383,909	\$ 14,679,740	\$ 12,900,580					
19	Fuel Costs Collected		\$ 9,716,239	\$ 9,969,704	\$ 11,902,564	\$ 10,958,616	\$ 14,145,957	\$ 12,689,444					
20	Fuel Benefits Given in DFR NEM Incentive		(1,255)	(908)	(1,303)	(2,465)	(2,316)	(2,927)					
21	Adjusted Fuel Costs Collected		\$ 9,714,984	\$ 9,968,796	\$ 11,901,261	\$ 10,956,151	\$ 14,143,641	\$ 12,686,517					
22	(Over) / Under Current Month		\$ 2,136,505	\$ 1,485,746	\$ (885,564)	\$ 1,427,758	\$ 536,099	\$ 214,063					
23	(Over) / Under Cumulative Balance - February 2017		6,872,181										
24	Adjustment(s)												
25	(Over) / Under Cumulative Balance		\$ 9,008,686	\$ 10,494,432	\$ 9,808,869	\$ 11,236,627	\$ 11,772,726	\$ 11,986,790					
26	Coal		\$ 26,090,195	\$ 16,652,226	\$ 15,020,580	\$ 32,729,604	\$ 47,738,212	\$ 13,291,499	\$ 329,106,775				
27	Gas		43,263,905	40,761,598	48,990,477	68,321,872	199,040,233	54,548,622	764,277,603				
28	Nuclear Fuel		17,617,449	17,381,350	17,647,588	18,131,180	17,239,604	15,781,298	201,088,563				
29	Purchased Power		28,997,122	30,934,917	25,263,249	26,489,402	74,463,423	29,823,632	420,891,943				
30	Fuel Expense Recovered Through Inter-system Sales		(17,377,847)	(15,651,673)	(17,973,850)	(19,973,203)	(31,345,506)	(15,155,772)	(166,451,830)				
31	Total Fuel Costs		\$ 98,590,824	\$ 90,566,358	\$ 88,996,044	\$ 125,668,855	\$ 307,125,966	\$ 98,288,679	\$ 1,548,913,054				
32	Eliminate Avoided Fuel Benefit of SC NEM		16,796	14,843	22,759	28,232	24,054	23,500	174,903				
33	Adjusted System Fuel Costs		\$ 98,607,620	\$ 90,581,201	\$ 89,018,803	\$ 125,727,087	\$ 307,150,020	\$ 98,312,179	\$ 1,549,087,957				
34	Total actual / Projected System Sales (w solar impact)		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020				
35	Eliminate NEM Solar Generation KWH		524,433	463,456	710,617	881,482	751,073	733,769	5,440,691				
36	Adjusted Projected System KWh Sales (w/o n-em impact)		\$ 5,356,941,452	\$ 4,845,986,244	\$ 4,496,390,225	\$ 5,031,747,117	\$ 6,789,854,924	\$ 5,020,434,692	\$ 62,448,024,711				
37	System Cost per KWH (C/RWH)		1.841	1.869	1.980	2.409	4.524	1.958					
38	Actual / Projected SC Retail Sales (w solar)		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838				
39	Eliminate the NEM Impact		524,433	463,456	710,617	881,482	751,073	733,769	5,440,691				
40	Adjusted Projected SC Retail Sales (w/o solar)		531,266,010	555,470,453	473,385,147	439,749,195	711,879,353	547,256,047	6,383,475,529				
41	SC Base Fuel Costs		\$ 9,779,251	\$ 10,382,856	\$ 9,372,002	\$ 10,987,911	\$ 32,203,008	\$ 10,716,588	\$ 157,972,293				
42	Assign 100% of Avoided Fuel Benefit of SC NEM		(16,796)	(14,843)	(22,759)	(28,232)	(24,054)	(23,500)	(174,903)				
43	Adjusted SC Base Fuel Costs		\$ 9,762,455	\$ 10,368,013	\$ 9,349,243	\$ 10,959,679	\$ 32,178,954	\$ 10,699,088	\$ 157,797,390				
44	Fuel Costs Collected		\$ 11,729,326	\$ 12,265,213	\$ 10,447,029	\$ 9,701,097	\$ 15,719,471	\$ 12,080,325	\$ 141,325,195				
45	Fuel Benefits Given in DFR NEM Incentive		(4,682)	(4,007)	(6,337)	(8,009)	(6,688)	(6,550)	(47,493)				
46	Adjusted Fuel Costs Collected		\$ 11,724,644	\$ 12,261,166	\$ 10,440,692	\$ 9,693,088	\$ 15,712,783	\$ 12,073,579	\$ 141,277,702				
47	(Over) / Under Recovered Current Month		\$ (1,962,189)	\$ (1,893,153)	\$ (1,091,449)	\$ 1,266,591	\$ 16,466,171	\$ (1,380,991)	\$ 16,519,689				
48	Adjustment(s)								2,353				
49	(Over) / Under Recovered Cumulative Balance		\$ 10,024,601	\$ 8,131,448	\$ 7,039,999	\$ 8,306,590	\$ 24,772,761	\$ 23,394,223	\$ 23,394,223				

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Exhibit 2
DOCKET NO 2018-1-E
Page 2

Line No.	Class	Reference	Estimated 2018		Estimated 2018		Estimated 2018		Estimated 2018		Sixteen Months Ended June 2018
			March 2018	April 2018	May 2018	June 2018	June 2018	June 2018			
50	Coal		\$ 17,145,758	\$ 9,730,984	\$ 6,393,708	\$ 19,716,135	\$ 382,093,361				
51	Gas		51,139,383	33,075,255	40,916,239	47,210,732	936,619,212				
52	Nuclear Fuel		13,884,551	12,766,341	15,583,286	17,500,975	260,422,715				
53	Purchased Power		32,456,208	42,762,702	39,631,710	38,857,191	574,599,755				
54	Fuel Expense Recovered Through Intersystem Sales		(8,006,009)	(1,985,118)	(6,152,278)	(7,773,284)	(190,408,969)				
55	Total Fuel Costs		\$ 106,579,891	\$ 96,350,164	\$ 96,371,216	\$ 115,111,748	\$ 1,963,326,072				
56	Eliminate Avoided Fuel Benefit of SC NEM										
57	Adjusted System Fuel Costs		\$ 106,579,891	\$ 96,350,164	\$ 96,411,369	\$ 115,154,986	\$ 1,963,655,162				
58	Total System kWh Sales (w/ solar)										
59	Eliminate NEM Solar Generation kWh		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004				
60	Adjusted Projected System kWh Sales (w/o solar)		1,044,569	1,166,155	1,253,974	1,350,340	10,255,729				
61	System Cost per kWh (C/KWH)		2.290	2.137	2.113	2.154	2.409				
62	Projected SC Retail Sales (w/ solar)		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646				
63	Eliminate the NEM impact		1,044,569	1,166,155	1,253,974	1,350,340	10,255,729				
64	Adjusted Projected SC Retail Sales (w/o solar)		412,058,132	511,270,346	501,384,843	554,167,525	8,362,356,376				
65	SC Base Fuel Costs		\$ 9,437,342	\$ 10,926,927	\$ 10,956,676	\$ 11,937,180	\$ 200,869,418				
66	Assign 100% of Avoided Fuel Benefit of SC NEM		(33,455)	(37,340)	(40,152)	(43,238)	(329,088)				
67	Adjusted SC Base Fuel Costs		\$ 9,403,887	\$ 10,889,587	\$ 10,555,524	\$ 11,893,942	\$ 200,540,330				
68	Fuel Costs Collected		\$ 9,084,719	\$ 11,273,303	\$ 11,052,892	\$ 12,217,260	\$ 184,953,369				
69	Fuel Benefits Given in DER NEM Incentive		(9,511)	(9,285)	(9,982)	(10,747)	(87,017)				
70	Adjusted Fuel Costs Collected		\$ 9,075,208	\$ 11,264,018	\$ 11,042,911	\$ 12,206,513	\$ 184,866,352				
71	(Over) / Under Recovered Current Month		\$ 328,679	\$ (374,431)	\$ (487,387)	\$ (312,571)	\$ 15,673,978				
72	Adjustment(s)						2,353				
73	(Over) / Under Recovered Cumulative Balance						6,698,199,477				
74	SC Projected SC Retail Sales July 2018 - June 2019		\$ 23,722,902	\$ 23,348,470	\$ 22,861,083	\$ 22,548,512	\$ 22,548,512				
75	SC Base Fuel Increment / (Decrement) Calculated Rate (cents / kWh)						0.337				

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD BASE FUEL COSTS
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Exhibit 3
DOCKET NO 2018-1-E

Line No.	Description	Reference	2019												Billing Period Twelve Months Ended Jun-19					
			July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019						
1	Coal		\$ 28,730,167	\$ 25,617,917	\$ 12,176,269	\$ 6,045,671	\$ 5,324,288	\$ 15,287,349												
2	Gas		\$ 52,865,921	\$ 50,029,294	\$ 43,599,485	\$ 39,857,463	\$ 45,750,787	\$ 48,230,326												
3	Nuclear Fuel		\$ 17,353,067	\$ 17,386,393	\$ 15,051,988	\$ 14,777,235	\$ 17,369,075	\$ 17,927,284												
4	Purchased Power		\$ 43,570,010	\$ 42,437,151	\$ 38,049,609	\$ 35,795,969	\$ 28,727,631	\$ 30,812,513												
5	Fuel Expense Recovered Through Intersystem Sales		\$ (7,173,798)	\$ (5,615,097)	\$ (5,930,803)	\$ (9,152,987)	\$ (14,318,953)	\$ (5,610,021)												
6	Total Fuel Costs	Sum Lines 1 through 6	\$ 135,345,367	\$ 129,855,658	\$ 102,946,548	\$ 87,323,351	\$ 82,852,828	\$ 106,647,451												
7	Eliminate Avoided Fuel Benefit of SC NEM		\$ 45,576	\$ 46,334	\$ 46,687	\$ 47,781	\$ 45,486	\$ 42,480												
8	Adjusted System Fuel Costs	Line 6 + Line 7	\$ 135,390,943	\$ 129,901,992	\$ 102,993,235	\$ 87,371,132	\$ 82,898,314	\$ 106,689,931												
9	Total Projected System Sales (w/solar impact)		\$ 6,035,990,340	\$ 6,046,836,934	\$ 5,391,900,583	\$ 4,610,783,803	\$ 4,534,155,911	\$ 5,201,927,524												
10	Eliminate NEM Solar Generation KWh		\$ 1,436,821	\$ 1,460,723	\$ 1,471,842	\$ 1,506,336	\$ 1,433,984	\$ 1,339,223												
11	Adjusted Projected System KWh Sales (w/o solar impact)	Line 9 + Line 10	\$ 6,037,427,161	\$ 6,048,297,657	\$ 5,393,372,425	\$ 4,612,290,139	\$ 4,535,589,895	\$ 5,203,266,747												
12	System Cost per KWh (c/kWh)	Line 8 / Line 11 * 100	2.243	2.148	1.910	1.894	1.828	2.050												
13	Adjusted Projected SC Retail Sales (w/o solar impact)		\$ 615,363,144	\$ 627,142,827	\$ 582,456,275	\$ 526,939,314	\$ 489,671,821	\$ 544,037,428												
14	SC Base Fuel Costs	Line 12 * Line 13 / 100	\$ 13,799,686	\$ 13,469,427	\$ 11,122,736	\$ 9,981,871	\$ 8,949,876	\$ 11,155,168												
15	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)		\$ (37,407)	\$ (38,031)	\$ (38,321)	\$ (39,220)	\$ (37,336)	\$ (34,868)												
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 13,762,279	\$ 13,431,396	\$ 11,084,415	\$ 9,942,651	\$ 8,912,540	\$ 11,120,300												
17	Coal		\$ 49,264,113	\$ 39,739,996	\$ 14,316,441	\$ 3,761,010	\$ 4,889,616	\$ 17,105,647												
18	Gas		\$ 26,766,481	\$ 24,177,655	\$ 44,868,689	\$ 31,891,933	\$ 36,287,087	\$ 47,617,413												
19	Nuclear Fuel		\$ 18,080,859	\$ 16,143,243	\$ 13,891,466	\$ 16,515,197	\$ 17,135,259	\$ 16,397,532												
20	Purchased Power		\$ 38,065,970	\$ 37,226,705	\$ 38,048,558	\$ 38,519,430	\$ 39,142,220	\$ 42,593,553												
21	Fuel Expense Recovered Through Intersystem Sales		\$ (4,108,980)	\$ (4,025,101)	\$ (6,520,652)	\$ (9,163,608)	\$ (6,530,386)	\$ (8,151,415)												
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 128,068,443	\$ 113,262,498	\$ 104,604,502	\$ 81,523,962	\$ 90,923,796	\$ 115,562,730												
23	Eliminate Avoided Fuel Benefit of SC NEM		\$ 48,051	\$ 49,361	\$ 59,777	\$ 68,277	\$ 71,372	\$ 75,145												
24	Adjusted System Fuel Costs	Line 22 + Line 23	\$ 128,116,494	\$ 113,311,859	\$ 104,664,279	\$ 81,592,239	\$ 90,995,168	\$ 115,637,875												
25	Total Projected System Sales (w/solar impact)		\$ 5,928,131,992	\$ 5,371,085,870	\$ 5,087,321,740	\$ 4,691,525,091	\$ 4,633,526,887	\$ 5,303,092,725												
26	Eliminate NEM Solar Generation KWh		\$ 1,514,854	\$ 1,556,153	\$ 1,884,509	\$ 2,152,506	\$ 2,250,052	\$ 2,369,002												
27	Adjusted Projected System KWh Sales (w/o solar impact)	Line 25 + Line 26	\$ 5,929,646,846	\$ 5,372,642,023	\$ 5,089,206,249	\$ 4,693,677,597	\$ 4,635,776,939	\$ 5,305,461,727												
28	System Cost per KWh (c/kWh)	Line 24 / Line 27 * 100	2.161	2.109	2.057	1.738	1.963	2.180												
29	Adjusted Projected SC Retail Sales (w/o solar impact)		\$ 613,419,576	\$ 578,810,197	\$ 549,831,762	\$ 533,191,453	\$ 509,904,634	\$ 547,807,049												
30	SC Base Fuel Costs	Line 28 * Line 29 / 100	\$ 13,253,600	\$ 12,207,413	\$ 11,307,804	\$ 9,268,699	\$ 10,008,863	\$ 11,940,006												
31	Assign 100% of Avoided Fuel Benefit of SC NEM (Note 1)		\$ (39,444)	\$ (40,520)	\$ (49,077)	\$ (56,060)	\$ (58,601)	\$ (61,701)												
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 13,214,156	\$ 12,166,893	\$ 11,258,727	\$ 9,212,639	\$ 9,950,262	\$ 11,878,305												
33	Projected SC Retail Sales																			
34	Adjusted SC System Cost per KWh (c/kWh)																			

Note 1: Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CELL
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	Residential												Review Period Twelve Months Ended Feb-18			
			Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018				
1	Winter 2017 Firm Coincident Peak (CP) KWS	59.11%																
2	Winter 2016 Firm Coincident Peak (CP) KWS	53.59%																
3	Total Reagents		\$ 1,121,960	\$ 553,725	\$ 732,232	\$ 1,342,906	\$ 2,123,578	\$ 2,226,112										
4	Emission Allowances		(9,156)	3,307	1,296	(176,970)	2,214	5,041										
5	Amounts Recovered in Off-System Sales		(96,097)	(105,473)	(115,469)	(33,154)	(23,903)	(246,958)										
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 1,016,707	\$ 451,559	\$ 618,060	\$ 1,132,782	\$ 2,101,889	\$ 1,984,195										
7	Total System Sales KWh		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580										
8	Environmental System Costs Incurred c/kwh	Line 6 / Line 7*100	0.022	0.011	0.013	0.022	0.034	0.034										
9	SC Retail Sales KWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055										
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 95,432	\$ 48,232	\$ 69,279	\$ 106,837	\$ 217,816	\$ 192,440										
11	Residential Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 51,143	\$ 25,848	\$ 37,127	\$ 57,256	\$ 116,730,879	\$ 103,132										
12	SC Residential KWh Sales		155,728,866	128,069,097	136,252,020	167,932,120	206,317,399	195,706,419										
13	SC Residential Environmental Costs Incurred c/kwh	Line 11 / Line 12 * 100	0.033	0.020	0.027	0.034	0.057	0.053										
14	SC Residential Environmental Costs Billed c/kwh		0.042	0.042	0.042	0.042	0.035	0.035										
15	SC Residential Environmental Costs (Over) / Under Recovery	Line 13 - Line 14) * Line 12 / 100	\$ (13,791)	\$ (27,527)	\$ (19,646)	\$ (12,726)	\$ 45,068	\$ 35,153										
16	Prior Year Balance and Misc. Adjustments(s)		\$ (324,377)															
17	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 15 + Prior Month Cum. Bal	\$ (338,168)	\$ (365,695)	\$ (385,341)	\$ (398,067)	\$ (352,999)	\$ (317,846)										
18	Total Reagents		\$ 1,214,712	\$ 783,524	\$ 573,081	\$ 1,566,799	\$ 2,370,135	\$ 785,235										
19	Emission Allowances		4,511	(7,931)	1,683	(18,076)	2,739	(66,696)										
20	Amounts Recovered in Off-System Sales		(373,126)	(92,332)	(29,107)	(44,776)	(19,836)	(34,731)										
21	Net Environmental Costs	Sum Lines 18 thru 20	\$ 846,097	\$ 683,262	\$ 545,657	\$ 1,503,947.00	\$ 2,353,038	\$ 683,808										
22	Total System Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923										
23	Environmental System Costs Incurred c/kwh	Line 21 / Line 22 * 100	0.016	0.014	0.012	0.030	0.035	0.014										
24	SC Retail Sales KWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278										
25	SC Environmental Costs	Line 23 * Line 24 / 100	\$ 83,836	\$ 78,261	\$ 57,370	\$ 131,197	\$ 246,470	\$ 74,450										
26	Residential Environmental Cost Allocated by Firm CP	Line 25 * Line 2 (or line 1)	\$ 44,929	\$ 41,941	\$ 30,746	\$ 70,310	\$ 145,698	\$ 44,010										
27	SC Residential KWh Sales		184,493,017	146,380,809	134,485,077	177,212,921	290,755,069	205,274,470										
28	SC Residential Environmental Costs Incurred c/kwh	Line 26 / Line 27 * 100	0.024	0.029	0.023	0.040	0.050	0.021										
29	SC Residential Environmental Costs Billed c/kwh		0.035	0.035	0.035	0.035	0.035	0.035										
30	SC Residential Environmental Costs (Over) / Under Recovery	Line 28 - Line 29) * Line 27 / 100	\$ (19,149)	\$ (8,894)	\$ (15,979)	\$ 8,725	\$ 44,655	\$ (27,325)										
31	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 30 + Prior Month Cum. Bal	\$ (336,995)	\$ (345,889)	\$ (361,868)	\$ (353,143)	\$ (308,488)	\$ (335,813)										
32	Adjustment(s)																	
33	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 31 + Line 32																

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	Residential					Sixteen Months End June 2018
			Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	June 2018	
1	Winter 2017 Firm Coincident Peak (CP) KWS							
2	Winter 2016 Firm Coincident Peak (CP) KWS							
			59.11%					
			53.59%					
34	Total Reagents		\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 18,219,642	
35	Emission Allowances		833	680	564	1,790	(254,170)	
36	Amounts Recovered in Off-System Sales		(10,052)	-	(2,048)	(3,613)	(1,230,675)	
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 778,364	\$ 549,046	\$ 345,088	\$ 1,141,298	\$ 16,734,796	
38	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004	
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.017	0.012	0.008	0.021		
40	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646	
41	SC Environmental Costs	Line 39 * Line 40 / 100	\$ 68,741	\$ 62,116	\$ 37,841	\$ 118,051	\$ 1,688,368	
42	Residential Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 40,635	\$ 36,719	\$ 22,369	\$ 69,784	\$ 938,379	
43	Projected SC Residential KWh Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,563.83	
44	SC Residential Environmental Costs Incurred c/kwh	Line 42 / Line 43 * 100	0.028	0.023	0.016	0.039		
45	SC Residential Environmental Costs Billed c/kwh		0.035	0.035	0.035	0.035		
46	SC Residential Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	\$ (9,388)	\$ (18,071)	\$ (26,507)	\$ 8,392	\$ (57,010)	
47	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum. Bal	\$ (345,201)	\$ (363,272)	\$ (389,778)	\$ (381,387)	\$ (381,387)	
48	Adjustment(s)						\$ -	
49	Adjusted Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ (381,387)	
50	SC Projected Residential KWh Sales July 2018 - June 2019						2,298,022,389	
51	SC Residential Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					(0.017)	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	General Service (Non demand)												Review Period Twelve Months Ended Feb-18
		5.46% Reference		5.41% Reference		Actual 2017		Actual 2017		Actual 2017		Actual 2017		
		Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	
1	Winter 2017 Firm Coincident Peak (CP) KWS													
2	Winter 2016 Firm Coincident Peak (CP) KWS													
3	Total Reagents	\$ 1,121,960	\$ 553,725	\$ 732,232	\$ 1,342,906	\$ 2,123,578	\$ 2,226,112							
4	Emission Allowances	(9,156)	3,307	1,296	(176,970)	2,214	5,041							
5	Amounts Recovered in Off-System Sales	(96,097)	(105,473)	(115,469)	(33,154)	(23,903)	(246,958)							
6	Net Environmental Costs	\$ 1,016,707	\$ 451,559	\$ 618,060	\$ 1,132,782	\$ 2,101,889	\$ 1,984,195							
7	Total System Sales KWh													
8	Environmental System Costs Incurred c/kwh	4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580							
9	SC Retail Sales KWh	0,022	0,011	0,013	0,022	0,034	0,034							
10	SC Environmental Costs	435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055							
11	General Service (Non-demand) Environmental Cost Allocated by Firm CP	\$ 95,432	\$ 48,232	\$ 69,279	\$ 106,837	\$ 217,816	\$ 192,440							
12	General Service (Non-demand) KWh Sales	\$ 5,160	\$ 2,608	\$ 3,746	\$ 5,776	\$ 11,776,699	\$ 10,405							
13	General Service (Non-demand) Environmental Costs Incurred c/kwh	20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018							
14	General Service (Non-demand) Environmental Costs Billed c/kwh	0,031	0,031	0,031	0,031	0,031	0,024							
15	General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(1,056)	(3,223)	(2,877)	(2,238)	4,415	3,230							
16	Prior Year Balance and Misc. Adjustments	(45,712)												
17	Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(46,768)	(49,991)	(52,868)	(55,106)	(50,691)	(47,461)							
18	Total Reagents	\$ 1,214,712	\$ 783,524	\$ 573,081	\$ 1,566,799	\$ 2,370,135	\$ 785,235							
19	Emission Allowances	4,511	(7,931)	1,683	(18,076)	2,739	(66,696)							
20	Amounts Recovered in Off-System Sales	(373,126)	(92,332)	(29,107)	(44,776)	(13,836)	(34,731)							
21	Net Environmental Costs	\$ 846,097	\$ 683,262	\$ 545,657	\$ 1,503,947	\$ 2,353,038	\$ 683,808							
22	Total System Sales	5,356,417,019	4,845,522,788	4,495,679,608	5,030,855,635	6,789,103,851	5,019,700,923							
23	Environmental System Costs Incurred c/kwh	0,016	0,014	0,012	0,030	0,035	0,014							
24	SC Retail Sales KWh	530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278							
25	SC Environmental Costs	83,836	78,261	57,370	131,197	246,470	74,450							
26	General Service (Non-demand) Environmental Cost Allocated by Firm CP	\$ 4,533	\$ 4,231	\$ 3,102	\$ 7,093	\$ 13,459	\$ 4,066							
27	General Service (Non-demand) KWh Sales	29,789,139	24,412,350	20,946,710	22,308,770	31,747,164	24,711,597							
28	General Service (Non-demand) Environmental Costs Incurred c/kwh	0,015	0,017	0,015	0,032	0,042	0,016							
29	General Service (Non-demand) Environmental Costs Billed c/kwh	0,024	0,024	0,024	0,024	0,024	0,024							
30	General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(2,616)	(1,628)	(1,925)	1,739	5,840	(1,865)							
31	Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(50,077)	(51,705)	(53,630)	(51,891)	(46,051)	(47,916)							
32	Adjustments													
33	Adjusted Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery													

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Exhibit 4
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DOCKET NO 2018-1-E

Line No. 1 Winter 2017 Firm Coincident Peak (CP) KWh
2 Winter 2016 Firm Coincident Peak (CP) KWh

General Service (non demand)

5.46%
5.41%

Line No.	Description	Reference	Estimated					Sixteen Months Ended June 2018
			March 2018	April 2018	May 2018	June 2018	June 2018	
34	Total Reagents		\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 18,219,642	
35	Emission Allowances		833	680	564	1,790	(254,170)	
36	Amounts Recovered in Off-System Sales		(100,052)	-	(2,048)	(3,613)	(1,230,675)	
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 778,364	\$ 549,046	\$ 345,088	\$ 1,141,298	\$ 16,734,796	
38	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004	
39	Environmental System Costs Incurred c/kwh	Line 37 / Line 38 * 100	0.017	0.012	0.008	0.021	0.026	
40	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,332,100,646	
41	SC Environmental Costs	Line 40 * Line 39 / 100	\$ 66,741	\$ 62,116	\$ 37,841	\$ 118,051	\$ 1,688,368	
42	General Service (Non-demand) Environmental Cost Allocated by Firm CP	Line 41 * Line 1	\$ 3,754	\$ 3,392	\$ 2,066	\$ 6,447	\$ 91,614	
43	Projected General Service (Non-demand) KWh Sales		18,983,274	23,240,933	23,715,501	24,777,789	391,280,386	
44	General Service (Non-demand) Environmental Costs Incurred c/kwh	Line 42 / Line 43 * 100	0.020	0.015	0.009	0.026	0.026	
45	General Service (Non-demand) Environmental Costs Billed c/kwh		0.024	0.024	0.024	0.024	0.024	
46	General Service (Non-demand) Environmental Costs (Over) / Under Recovery	(Line 44 - Line 45) * Line 43 / 100	(802.13)	(2,186)	(3,625)	500	(8,317)	
47	Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum. Bal	\$ (48,718)	\$ (50,904)	\$ (54,529)	\$ (54,029)	\$ (54,029)	
48	Adjusted Cumulative SC General Service (Non-demand) Environmental Costs (Over) / Under Recovery	Line 47 + Line 48					\$ (54,029)	
50	SC Projected General Service (Non-demand) KWh Sales July 2018 - June 2019						289,418,823	
51	SC General Service (Non-demand) Environmental Increment / (Decrement) Calculated Rate (c/kwh)	(Line 49 / Line 50 * 100)					(0.019)	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	General Service (Demand)												Review Period Twelve Months Ended Feb-18		
			35.43% 41.00%			Actual March 2017		Actual April 2017		Actual May 2017		Actual June 2017		Actual July 2017		Actual August 2017	
1	Winter 2017 Firm Coincident Peak (CP) KWS																
2	Winter 2016 Firm Coincident Peak (CP) KWS																
3	Total Reagents																
4	Emission Allowances																
5	Amounts Recovered in Off-System Sales																
6	Net Environmental Costs																
7	Total System Sales KWH																
8	Environmental System Costs Incurred c/kwh																
9	SC Retail Sales KWH																
10	SC Environmental Costs																
11	SC General Service (Demand) Environmental Cost Allocated by Firm CP																
12	SC General Service (Demand) KW Sales																
13	SC General Service (Demand) Environmental Costs Incurred c / KW																
14	SC General Service (Demand) Environmental Costs Billed c / KW																
15	SC General Service (Demand) Environmental Costs (Over) / Under Recovery																
16	Prior Year Balance and Misc. Adjustment(s)																
17	Cumulative SC Environmental Costs (Over) / Under Recovery																
18	Total Reagents																
19	Emission Allowances																
20	Amounts Recovered in Off-System Sales																
21	Net Environmental Costs																
22	Total System Sales KWH																
23	Environmental System Costs Incurred c/kwh																
24	SC Retail Sales KWH																
25	SC Environmental Costs																
26	General Service (Demand) Environmental Cost Allocated by Firm CP																
27	SC General Service (Demand) KW Sales																
28	SC General Service (Demand) Environmental Costs Incurred c / KW																
29	SC General Service (Demand) Environmental Costs Billed c / KW																
30	SC General Service (Demand) Environmental Costs (Over) / Under Recovery																
31	Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery																
32	Adjustment(s)																
33	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery																

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No. 1 Winter 2017 Firm Coincident Peak (CP) KWS
2 Winter 2016 Firm Coincident Peak (CP) KWS

General Service (demand)
35.43%
41.00%

Exhibit 4
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Line No.	Description	Reference	Estimated		Estimated		Estimated		Estimated		Sixteen Months June 2018
			March 2018	April 2018	May 2018	June 2018	June 2018	June 2018			
34	Total Reagents			\$ 787,583	\$ 548,366	\$ 346,572	\$ 1,143,121	\$ 1,143,121	\$ 18,219,642		
35	Emission Allowances			833	680	564	1,790	1,790	(254,170)		
36	Amounts Recovered in Off-System Sales			(10,052)	-	(2,048)	(3,613)	(3,613)	(1,230,675)		
37	Net Environmental Costs			778,364	549,046	345,088	1,141,298	1,141,298	16,734,796		
	Sum Lines 34 thru 36										
38	Projected Total System Sales KWH			4,653,962,899	4,508,800,151	4,560,908,805	5,344,565,169	5,344,565,169	81,510,821,004		
39	Environmental System Costs Incurred c/kwh			0.017	0.012	0.008	0.021	0.021	8,352,100,646		
40	Projected SC Retail Sales KWH			411,013,563	510,104,190	500,130,869	552,817,186	552,817,186	8,352,100,646		
41	SC Environmental Costs			68,741	62,116	37,841	118,051	118,051	1,688,368		
42	General Service (Demand) Environmental Cost Allocated by Firm CP			24,352	22,005	13,405	41,820	41,820	658,374		
43	Projected SC General Service (Demand) KW Sales			657,929	769,162	700,963	853,386	853,386	11,098,556		
44	SC General Service (Demand) Environmental Costs Incurred c / KW			4	3	2	5	5			
45	SC General Service (Demand) Environmental Costs Billed c / KW			7	7	7	7	7			
46	SC General Service (Demand) Environmental Costs (Over) / Under Recovery			(21,703)	(31,836)	(35,662)	(17,917)	(17,917)	(91,949)		
47	Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery										
48	Adjustment(s)			(254,478)	(286,314)	(321,977)	(339,894)	(339,894)	(339,894)		
49	Adjusted Cumulative SC General Service (Demand) Environmental Costs (Over) / Under Recovery										
50	SC Projected General Service (Demand) KW Sales July 2018 - June 2019								9,217,404		
51	SC General Service (Demand) Environmental Increment / (Decrement) Calculated Rate (c/kw)								(4)		

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Exhibit 5
DOCKET NO 2018-1-E

Line No.	Class	Winter 2017 Firm		Billing Period												
		Conduct Peak (CP) KWh	CP %	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19
1	Residential	708,895	59.11%													
2	General Service (Non-demand)	65,487	5.46%													
3	General Service (Demand)	424,824	35.43%													
	Total SC	1,199,207	99.00%													
4	Total Reagents			\$ 1,708,565	\$ 1,512,683	\$ 703,755	\$ 343,535	\$ 309,873	\$ 913,466							
5	Emission Allowances			2,659	2,341	1,002	445	402	1,432							
6	Estimated Amounts Recovered in Off-system Sales			(3,569)	(1,505)	(690)	(1,629)	(4,972)	(610)							
7	Net Environmental Costs			\$ 1,707,655	\$ 1,513,519	\$ 704,067	\$ 342,351	\$ 305,303	\$ 914,288							
8	Total Projected System Sales			6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524							
9	Environmental System Costs Incurred c/kwh			Line 7 / Line 8 * 100	0.028	0.025	0.013	0.007	0.018							
10	Projected SC Retail Sales			613,926,323	625,682,104	580,984,433	525,432,978	488,237,837	542,698,205							
11	SC Environmental Costs			Line 9 * Line 10 / 100	173,687	156,608	75,864	39,013	32,875							
12	Total Reagents			0	0	0	0	0	0							
13	Emission Allowances			3,063,591	2,423,517	870,629	214,972	273,126	997,153							
14	Estimated Amounts Recovered in Off-system Sales			3,561	2,814	1,009	231	387	1,343							
15	Net Environmental Costs			0	(34,821)	(6,822)	(3,330)	(3,009)	(4,417)							
16	Total Projected System Sales			Sum Lines 12 thru 14	3,032,331	2,410,672	864,816	211,873	270,504							
17	Environmental System Costs Incurred c/kwh			0	5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887							
18	Projected SC Retail Sales			611,904,722	577,254,045	547,947,253	531,038,947	507,554,583	545,438,047							
19	SC Environmental Costs			Line 17 * Line 18 / 100	312,999	259,085	93,148	23,982	29,637							
20	SC Environmental Costs Allocated on Firm CP KWhs															
21	Residential			Total Line 19 * Line 1												
22	General Service (Non-demand)			Total Line 19 * Line 2												
23	General Service (Demand)			Total Line 19 * Line 3												
	Total SC			Sum Lines 20 through 22												
24	Projected SC Retail Sales KWh (July 2017-June 2018)															
25	Residential			Total Line 19 * Line 1												
26	General Service (Non-demand)			Total Line 19 * Line 2												
27	General Service (Demand)			Total Line 19 * Line 3												
28	Lighting			Sum Lines 24 through 27												
29	Total SC															
30	Projected Average Environmental Fuel Cost c/kwh															
	Residential			Line 20 / Line 24 * 100												
	General Service (Non-demand)			Line 21 / Line 25 * 100												
31	Projected Average Environmental Fuel Cost c/kwh															
	Projected SC KW sales General Service (Demand)			Line 22 / Line 31 * 100												
32	General Service (Demand) (c/kwh)															

**DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
REVENUE ADJUSTMENT FACTOR FOR RECD
FOR THE 12 MONTHS ENDING MARCH 31, 2017 TO FEBRUARY 28, 2018**

Residential Adjustment Factor

(1) Billed kWh (12ME 2/28/18)	Per Books	2,146,886,221	
(2) Billed RECD kWh (12ME 2/28/18)		317,077,982	(a)
(3) RECD kWh Percent of Total Billed	Line 2 / Line 1	14.7692%	
(4) RECD Discount	RECD Discount	5.0000%	(b)
(5) RECD Impact (Weighted Discount)	Line 3 X Line 4	0.7385%	

Notes:

- (a) Energy billed and discounted pursuant to Residential Energy Conservation Discount, Rider RECD-2C.
- (b) Five-percent discount provided under Residential Energy Conservation Discount, Rider RECD-2C.

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	Reference	Residential												Review Period Twelve Months Ended Feb-18
			Actual 2017		Actual 2017		Actual 2017		Actual 2017		Actual 2017		Actual 2018		
			March	April	May	June	July	August	September	October	November	December	January	February	
1	Winter 2017 Firm Coincident Peak (CP) KWS	59.11%													
2	Winter 2016 Firm Coincident Peak (CP) KWS	53.59%													
3	PURPA Purchased Power Capacity Costs		4,466,707	4,653,614	4,370,510	8,198,063	7,651,932	7,841,805							
4	Firm Natural Gas Transportation and Storage Costs		4,466,707	4,653,614	4,370,510	8,198,063	11,530,068	11,880,272							
5	Total Capacity Costs	Lines 3 + Line 4					19,182,000	19,722,603							
6	Total System kWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,693,274	5,920,108,580							
7	Capacity Related System Costs Incurred (C/KWH)	Line 5 / Line 6 * 100	0.0962	0.1109	0.0917	0.1573	0.3106	0.3331							
8	SC Retail Sales kWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055							
9	SC Capacity Related Costs	Line 7 * Line 8 / 100	419,262	495,994	489,892	773,191	1,987,803	1,912,824							
10	Residential Capacity Related Costs Allocated by Firm CP	Line 9 * Line 2	224,689	265,811	262,541	414,365	1,065,295	1,025,113							
11	SC Residential kWh Sales		155,728,866	128,069,097	136,522,020	167,932,120	206,317,299	195,706,419							
12	SC Residential Capacity Related Cost Incurred (C/KWH)	Line 10 / Line 11 * 100	0.144	0.208	0.193	0.247	0.516	0.524							
13	SC Residential Non-Fuel Base Rates Billed (C/KWH)	2017-1E	0.181	0.181	0.181	0.181	0.471	0.471							
14	SC Capacity Related (Over) / Under Recovery	(Line 12 - Line 13) * Line 11 / 100	(56,692)	34,522	16,521	111,106	92,732	102,543							
15	Prior Year Balance and Misc. Adjustment(s)	Prior Year Annual Filing	634,703												
16	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 14 + Prior Month Cum Bal	578,011	612,533	629,054	740,160	832,892	935,435							
17	PURPA Purchased Power Capacity Costs		6,928,942	5,334,274	3,517,629	3,901,444	2,569,809	4,995,847							
18	Firm Natural Gas Transportation and Storage Costs		11,526,501	11,368,833	11,123,697	11,895,757	11,468,861	11,576,524							
19	Total Capacity Costs	Line 17 + Line 18	18,455,443	16,703,107	14,641,326	15,797,201	14,054,670	16,572,371							
20	Total System kWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923							
21	Capacity Related System Costs Incurred (C/KWH)	Line 19 / Line 20 * 100	0.3445	0.3447	0.3257	0.3140	0.2070	0.3301							
22	SC Retail Sales kWh		530,741,577	555,006,997	472,674,590	438,867,713	711,128,280	546,524,278							
23	SC Capacity Related Costs	Line 21 * Line 22 / 100	1,828,661	1,913,177	1,539,385	1,378,069	1,472,164	1,804,325							
24	Residential Capacity Related Costs Allocated by Firm CP	Line 23 * Line 2 or (Line 1)	980,008	1,025,301	824,981	738,529	870,250	1,066,603							
25	SC Residential kWh Sales		184,493,017	146,380,809	134,485,077	177,212,921	290,755,069	205,274,470							
26	SC Residential Capacity Related Cost Incurred (C/KWH)	Line 24 / Line 25 * 100	0.531	0.700	0.613	0.417	0.299	0.520							
27	SC Residential Non-Fuel Base Rates Billed (C/KWH)		0.471	0.471	0.472	0.472	0.472	0.472							
28	SC Capacity Related (Over) / Under Recovery	(Line 26 - Line 27) * Line 25 / 100	110,370	335,395	190,857	(97,259)	98,482	437,530							
29	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 28 + Prior Month Cum Bal	1,045,505	1,381,200	1,572,057	1,474,798	973,751	1,072,233							
30	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 29 + Line 30													
31															

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No. 1 Winter 2017 Firm Coincident Peak (CP) KWS
2 Winter 2016 Firm Coincident Peak (CP) KWS

Residential
59.11%
53.59%

Exhibit 7
Page 1b of 3
DOCKET NO 2018-1-E

Line No.	Description	Reference	Estimated					Shteen Months End June 2018
			March 2018	April 2018	May 2018	June 2018	June 2018	
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437	
33	Firm Natural Gas Transportation and Storage Costs	Line 32 + Line 33	\$ 11,019,595	\$ 20,468,051	\$ 20,790,135	\$ 11,010,148	\$ 155,614,963	
34	Total Capacity Costs		\$ 14,520,622	\$ 16,542,763	\$ 17,032,460	\$ 17,329,940	\$ 222,233,400	
35	Projected Total System Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004	
36	Capacity Related System Costs Incurred (C/KWH)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243	8.352,100,646	
37	Projected SC Retail Sales (KWH)	Line 36 * Line 37 / 100	411,013,563	510,104,190	500,130,869	552,817,186	22,828,941	
38	SC Capacity Related Costs	Line 38 * Line 1	\$ 1,282,385	\$ 1,871,569	\$ 1,867,711	\$ 1,792,529	\$ 12,791,608	
39	Residential Capacity Related Costs Allocated by Firm CP		\$ 758,065	\$ 1,106,354	\$ 1,104,073	\$ 1,059,690	\$	
40	Projected SC Residential KWH Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,564	
41	SC Residential Capacity Related Cost Incurred (C/KWH)	Line 39 / Line 40 * 100	0.527	0.702	0.785	0.600		
42	SC Residential Non-Fuel Base Rates Billed (C/KWH)		0.472	0.471	0.471	0.471		
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 79,187	\$ 363,675	\$ 441,564	\$ 227,460	\$ 1,549,416	
44	Cumulative SC Residential Capacity Related (Over) / Under Recovery Adjustment(s)	Line 43 + Prior Month Cum Bal	\$ 1,151,420	\$ 1,515,095	\$ 1,956,659	\$ 2,184,119	\$ 2,184,119	
45	Adjusted Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ 2,184,119	
47	SC Projected Residential KWH Sales July 2018 - June 2019						2,298,022,389	
48	SC Projected Residential Capacity Related Increment / (Decrement) Calculated Rate (C/KWH)	(Line 46 / Line 47 * 100)					0.095	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	General Service (non demand)												Review Period Twelve Months Ended Feb-18
		5.46% 5.41%												
		Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	
1	Winter 2017 Firm Coincident Peak (CP) KWh													
2	Winter 2016 Firm Coincident Peak (CP) KWh													
3	PURPA Purchased Power Capacity Costs	\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 7,651,932	\$ 7,841,805	\$ 11,530,068	\$ 19,182,000	\$ 19,722,603	\$ 19,880,797	\$ 19,722,603	\$ 19,722,603	\$ 64,420,576
4	Firm Natural Gas Transportation and Storage Costs													92,387,039
5	Total Capacity Costs	\$ 4,466,707	\$ 4,643,614	\$ 4,370,510	\$ 8,198,063	\$ 7,651,932	\$ 7,841,805	\$ 11,530,068	\$ 19,182,000	\$ 19,722,603	\$ 19,880,797	\$ 19,722,603	\$ 19,722,603	\$ 156,807,615
6	Total System KWh Sales	4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,106,580	5,213,164,766	6,176,683,274	5,920,106,580	5,213,164,766	6,176,683,274	5,920,106,580	6,378,094,838
7	Capacity Related System Costs Incurred (C/KWh)	0.0962	0.1109	0.0917	0.1573	0.1306	0.3331	0.1109	0.1109	0.0917	0.1573	0.1306	0.3331	0.3331
8	SC Retail Sales KWh	435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055	435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055	16,014,747
9	SC Capacity Related Costs Incurred	\$ 419,262	\$ 495,994	\$ 489,892	\$ 773,191	\$ 1,987,803	\$ 1,912,824	\$ 419,262	\$ 495,994	\$ 489,892	\$ 773,191	\$ 1,987,803	\$ 1,912,824	\$ 867,647
10	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	\$ 22,668	\$ 26,817	\$ 26,487	\$ 41,804	\$ 107,475	\$ 103,421	\$ 22,668	\$ 26,817	\$ 26,487	\$ 41,804	\$ 107,475	\$ 103,421	\$ 300,562,889
11	SC General Service (Non-Demand) KWh Sales	20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018	20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018	0.289
12	SC General Service (Non-Demand) Capacity Related Cost Incurred (C/KWh)	0.1130459	0.143	0.124	0.162	0.350	0.346	0.1130459	0.143	0.124	0.162	0.350	0.346	
13	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (C/KWh)	0.128	0.128	0.128	0.128	0.371	0.371	0.128	0.128	0.128	0.371	0.371	0.371	
14	SC Capacity Related (Over) / Under Recovery	(2,999)	2,742	(860)	8,714	(6,332)	(7,486)	(2,999)	2,742	(860)	8,714	(6,332)	(7,486)	
15	Prior Year Balance and Misc. Adjustment(s)	3,952						3,952						
16	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	\$ 953	\$ 3,695	\$ 2,835	\$ 11,549	\$ 5,217	\$ (2,269)	\$ 953	\$ 3,695	\$ 2,835	\$ 11,549	\$ 5,217	\$ (2,269)	
17	PURPA Purchased Power Capacity Costs	\$ 6,928,942	\$ 5,394,274	\$ 3,517,629	\$ 3,901,444	\$ 2,569,809	\$ 4,995,847	\$ 11,526,501	\$ 11,368,833	\$ 11,123,697	\$ 11,895,757	\$ 11,484,861	\$ 11,576,524	\$ 64,420,576
18	Firm Natural Gas Transportation and Storage Costs													92,387,039
19	Total Capacity Costs	\$ 18,455,443	\$ 16,703,107	\$ 14,641,326	\$ 15,797,201	\$ 14,054,670	\$ 16,572,371	\$ 18,455,443	\$ 16,703,107	\$ 14,641,326	\$ 15,797,201	\$ 14,054,670	\$ 16,572,371	\$ 156,807,615
20	Total System KWh Sales	5,356,647,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	5,356,647,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
21	Capacity Related System Costs Incurred (C/KWh)	0.3445	0.3447	0.3257	0.3140	0.2070	0.3301	0.3445	0.3447	0.3257	0.3140	0.2070	0.3301	
22	SC Retail Sales KWh	530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,094,838
23	SC Capacity Related Costs Incurred	\$ 1,828,661	\$ 1,913,177	\$ 1,539,285	\$ 1,378,069	\$ 1,472,164	\$ 1,804,325	\$ 1,828,661	\$ 1,913,177	\$ 1,539,285	\$ 1,378,069	\$ 1,472,164	\$ 1,804,325	\$ 16,014,747
24	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	\$ 98,871	\$ 103,440	\$ 83,230	\$ 74,508	\$ 80,393	\$ 98,532	\$ 98,871	\$ 103,440	\$ 83,230	\$ 74,508	\$ 80,393	\$ 98,532	\$ 867,647
25	SC General Service (Non-Demand) KWh Sales	29,789,139	24,412,350	20,946,710	22,308,770	31,747,164	24,711,597	29,789,139	24,412,350	20,946,710	22,308,770	31,747,164	24,711,597	300,562,889
26	SC General Service (Non-Demand) Capacity Related Cost Incurred (C/KWh)	0.332	0.424	0.397	0.334	0.253	0.399	0.332	0.424	0.397	0.334	0.253	0.399	0.289
27	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (C/KWh)	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	
28	SC Capacity Related (Over) / Under Recovery	(11,647)	12,870	5,518	(8,258)	(37,389)	6,882	(11,647)	12,870	5,518	(8,258)	(37,389)	6,882	(38,275)
29	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery													(34,323)
30	Adjustment(s)													
31	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery													(34,323)

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	1	Winter 2017 Firm Coincident Peak (CP) KWS	5.45%
2	Winter 2016 Firm Coincident Peak (CP) KWS	5.41%	

General Service (non demand)

Line No.	Description	Reference	Estimated					SIXTEEN MONTHS ENDED JUNE 2018
			March 2018	April 2018	May 2018	June 2018	June 2018	
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437	
33	Firm Natural Gas Transportation and Storage Costs		11,019,595	10,408,051	10,790,135	11,010,143	135,614,963	
34	Total Capacity Costs	Line 32 + Line 33	\$ 14,520,622	\$ 16,542,763	\$ 17,032,460	\$ 17,329,940	\$ 222,233,400	
35	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004	
36	Capacity Related System Costs Incurred (C/KWH)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243		
37	Projected SC Retail Sales KWH		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646	
38	SC Capacity Related Costs Incurred	Line 36 * Line 37 / 100	\$ 1,282,385	\$ 1,871,569	\$ 1,867,711	\$ 1,792,529	\$ 22,828,941	
39	General Service (Non-Demand) Capacity Related Cost Allocated by Firm CP	Line 38 - Line 1	\$ 70,030	\$ 102,204	\$ 101,594	\$ 97,888	\$ 1,239,762	
40	Projected SC General Service (Non-Demand) kWh Sales		18,983,274	23,240,933	23,715,501	24,777,789	391,280,386	
41	SC General Service (Non-Demand) Capacity Related Cost Incurred (C/KWH)	Line 39 / Line 40 * 100	0.369	0.440	0.430	0.395		
42	SC General Service (Non-Demand) Non-Fuel Base Rates Billed (C/KWH)		0.371	0.371	0.371	0.371		
43	SC Capacity Related (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ (398)	\$ 15,980	\$ 14,009	\$ 5,962	\$ (2,722)	
44	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery Adjustment(s)	Line 43 + Prior Month Cum Bal	\$ (34,721)	\$ (18,741)	\$ (4,732)	\$ 1,230	\$ 1,230	
45	Cumulative SC General Service (Non-Demand) Capacity Related (Over) / Under Recovery	Line 44 + Line 45					\$ 1,230	
47	SC Projected General Service (Non-Demand) kWh Sales July 2018 - June 2019						289,418,823	
48	SC Projected General Service (Non-Demand) Capacity Related Increment / (Decrement) Calculated Rate (C/KWH)	(Line 46 / Line 47 * 100)					-	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.	Description	General Service (Demand)		Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
		35.43%	41.00%							
1	Winter 2017 Firm Coincident Peak (CP) KWS									
2	Winter 2016 Firm Coincident Peak (CP) KWS									
3	PURPA Purchased Power Capacity Costs			4,466,707	4,643,614	4,370,510	8,198,063	7,651,932	7,841,805	
4	Firm Natural Gas Transportation and Storage Costs							11,530,068	11,880,797	
5	Total Capacity Costs			4,466,707	4,643,614	4,370,510	8,198,063	19,182,000	19,722,603	
6	Total System KWh Sales			4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580	
7	Capacity Related System Costs Incurred (C/KWH)			0.0862	0.1109	0.00917	0.1573	0.3106	0.3301	
8	SC Retail Sales KWH			435,846,198	441,290,514	534,032,128	491,673,707	640,080,861	574,170,055	
9	SC Capacity Related Costs Incurred			419,261,512	495,954	489,892	773,191	198,783,248	1,912,824	
10	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP			171,904	203,366	200,864	317,022	815,033	784,291	
11	SC General Service (Demand) KW Sales			662,683	640,150	693,150	661,633	692,814	691,771	
12	SC General Service (Demand) Capacity Related Costs Incurred (C/KW)			26	32	29	48	118	113	
13	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KW)			30	30	30	31	96	96	
14	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery			(26,900)	11,322	(7,080)	109,413	150,100	120,075	
15	Prior Year Balance and Misc. Adjustment(s)			254,606						
16	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery			227,706	239,028	231,948	341,361	491,461	611,536	
17	PURPA Purchased Power Capacity Costs			6,928,942	5,334,274	3,517,629	3,201,444	2,569,809	4,995,847	64,420,576
18	Firm Natural Gas Transportation and Storage Costs			11,526,501	11,368,833	11,123,697	11,895,757	11,484,861	11,576,524	92,387,039
19	Total Capacity Costs			18,455,443	16,703,107	14,641,326	15,797,201	14,054,670	16,572,371	156,807,615
20	Total System KWh Sales			5,356,417,019	4,845,222,788	4,495,679,608	5,030,865,635	6,178,103,851	5,019,700,923	62,442,584,020
21	Capacity Related System Costs Incurred (C/KWH)			0.3445	0.3447	0.3257	0.3140	0.270	0.3301	
22	SC Retail Sales KWH			530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
23	SC Capacity Related Costs Incurred			1,828,661	1,913,177	1,539,385	1,378,069	1,472,164	1,804,325	16,014,747
24	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP			749,782	784,435	631,174	665,032	521,520	639,190	6,383,614
25	SC General Service (Demand) KW Sales			699,229	712,886	665,214	595,057	712,986	689,543	8,117,116
26	SC General Service (Demand) Capacity Related Costs Incurred (C/KW)			107	110	95	95	73	93	
27	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KW)			96	96	96	97	96	96	
28	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery			77,955	100,885	(7,413)	(14,166)	(162,951)	(21,689)	320,551
29	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery			689,491	790,376	782,963	768,797	605,846	584,157	584,157
30	Adjustment(s)									
31	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery									584,157

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)
ACTUAL AND ESTIMATED COSTS AND REVENUES MARCH 2017 - JUNE 2018

Line No.		General Service (Demand)	
1	Winter 2017 Firm Coincident Peak (CP) KWS	35.43%	
2	Winter 2016 Firm Coincident Peak (CP) KWS	41.00%	

Line No.	Description	Reference								
			Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Estimated June 2018	Sixteen Months End of June 2018		
32	PURPA Purchased Power Capacity Costs		\$ 3,501,027	\$ 6,134,712	\$ 6,242,325	\$ 6,319,797	\$ 86,618,437			
33	Firm Natural Gas Transportation and Storage Costs	Line 32 + Line 33	11,019,595	10,408,051	10,790,135	11,010,143	135,614,963			
34	Total Capacity Costs		14,520,622	16,542,763	17,032,460	17,329,940	222,233,400			
35	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004			
36	Capacity Related System Costs Incurred (C/KWH)	Line 34 / Line 35 * 100	0.3120	0.3669	0.3734	0.3243	0.3243			
37	Projected SC Retail Sales KWH	Line 36 * Line 37 / 100	411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646			
38	SC Capacity Related Costs Incurred		1,282,385	1,871,569	1,867,711	1,792,529	22,828,941			
39	SC General Service (Demand) Capacity Related Cost Allocated by Firm CP	Line 38 * Line 1	454,290	663,011	661,644	635,011	8,797,571			
40	Projected SC General Service (Demand) KW Sales		657,929	769,162	700,963	853,386	11,098,556			
41	SC General Service (Demand) Capacity Related Costs Incurred (C/KW)	Line 39 / Line 40 * 100	69	86	94	74	74			
42	SC General Service (Demand) Non-Fuel Base Rates Billed (C/KW)		96	96	96	96	96			
43	SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 41 - Line 42 * Line 40 / 100	(177,328)	(75,391)	(11,287)	(184,248)	(118,703)			
44	Cumulative SC General Service (Demand) Capacity Related (Over) / Under Recovery	Line 43 + Prior Month Cum Bal	406,829	331,438	320,151	135,903	135,903			
45	Adjusted Cumulative SC General Service (Demand) Capacity Related Costs (Over) / Under Recovery	Line 44 + Line 45					135,903			
46	SC Projected General Service (Demand) KW Sales July 2018 - June 2019						9,217,404			
47	SC General Service (Demand) Environmental Capacity Related Increment / (Decrement)						(1)			
48	Calculated Rate (C/KW)	Line 46 / Line 47 * 100					1			

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED CAPACITY RELATED COSTS
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Line No.	Class	Winter 2017 Firm											
		Coincident Peak (CP) KWs											
		CP %											
1	Residential	708,895	59.11%										
2	General Service (Non-Demand)	65,487	5.46%										
3	General Service (Demand)	424,824	35.43%										
4	Lighting	0	0.00%										
5	Total SC	1,199,207	100.00%										

Line No.	Description	Reference	Billing Period											
			Twelve Months Ended Jun-19											
			2018											
			July	August	September	October	November	December	2018	2018	2018	2018	2018	2018
6	PURPA Purchased Power Capacity Costs		\$ 6,380,780	\$ 6,178,577	\$ 5,900,390	\$ 6,112,255	\$ 5,473,814	\$ 4,873,719						
7	Firm Natural Gas Transportation and Storage Costs		10,872,835	10,821,881	10,691,239	10,906,010	10,654,259	10,866,768						
8	Total Capacity Costs	Line 6 + Line 7	\$ 17,253,616	\$ 17,000,458	\$ 16,591,628	\$ 17,018,266	\$ 16,128,073	\$ 15,740,487						
9	Total Projected System Sales		6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524						
10	Capacity Related System Costs Incurred (c/kwh)	Line 8 / Line 9 *100	0.286	0.281	0.308	0.369	0.356	0.303						
11	Projected SC Retail Sales		613,926,323	625,682,104	580,984,433	525,432,978	488,237,837	542,698,205						
12	SC Purchased Power Capacity Costs	Line 10 * Line 11 /100	\$ 1,754,882	\$ 1,759,082	\$ 1,787,770	\$ 1,939,357	\$ 1,736,671	\$ 1,642,148						

Line No.	Description	Reference	Billing Period											
			Twelve Months Ended Jun-19											
			2019											
			January	February	March	April	May	June	2019	2019	2019	2019	2019	2019
13	PURPA Purchased Power Capacity Costs		\$ 5,520,665	\$ 5,491,467	\$ 6,191,143	\$ 6,955,740	\$ 7,081,759	\$ 7,190,695						
14	Firm Natural Gas Transportation and Storage Costs		10,627,178	10,680,475	13,329,030	12,768,293	12,641,477	12,790,374						
15	Total Capacity Costs	Line 13 + Line 14	\$ 16,147,843	\$ 16,171,942	\$ 19,520,173	\$ 19,724,033	\$ 19,723,236	\$ 19,981,070						
16	Total Projected System Sales		5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725						
17	Capacity Related System Costs Incurred (c/kwh)	Line 15 / Line 16 *100	0.272	0.301	0.384	0.420	0.426	0.377						
18	Projected SC Retail Sales		611,904,722	577,254,045	547,947,253	531,038,947	507,654,583	545,438,047						
19	SC Purchased Power Capacity Costs	Line 17 * Line 18 /100	\$ 1,666,788	\$ 1,738,069	\$ 2,102,487	\$ 2,232,585	\$ 2,160,901	\$ 2,055,109						

SC Capacity Related Costs Allocated on Firm CP KWs														
20	Residential	Total Line 19 * Line 1												
21	General Service (Non-Demand)	Total Line 19 * Line 2												
22	General Service (Demand)	Total Line 19 * Line 3												
23	Lighting	Total Line 19 * Line 4												
24	Total SC	Sum Lines 20 through 23												

Projected SC Retail Sales KWh (July 2018-June 2019)														
25	Residential													
26	General Service (Non-Demand)													
27	General Service (Demand)													
28	Lighting													
29	Total SC	Sum Lines 25 through 28												

SC Capacity Related Costs c/kwh														
30	Residential	Line 20 / Line 25 * 100												
31	General Service (Non-Demand)	Line 21 / Line 26 * 100												
32	Lighting	Line 22 / Line 27 * 100												
33	Projected SC KW Sales (General Service demand)	Line 22 / Line 33 * 100												
34	General Service Demand charge for Capacity Related Costs c/kwh													

DUKE ENERGY PROGRESS, INC
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL (OVER) / UNDER RECOVERY
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Description	Reference	Actual March 2017		Actual April 2017		Actual May 2017		Actual June 2017		Actual July 2017		Actual August 2017		Review Period Twelve Months Ended Feb-18
			Actual	Estimated											
DERP Incremental Costs															
1	Purchased Power Agreements														
2	DER NEM Incentive		6,208		5,119		6,935		8,831		8,712		11,998		
3	Solar Rebate Program - Amortization		6,259		7,654		19,908		26,557		31,404		33,452		
4	Shared Solar Program														
5	Carrying Costs on Deferred Amounts		5,775		6,689		13,171		22,792		28,152		31,384		
6	NEM Avoided Capacity Costs		167		121		173		326		358		460		
7	NEM Meter Costs		1,214		1,157		1,461		1,733		1,707		2,347		
8	General and Administrative Expenses		48,245		70,285		69,249		95,440		50,589		48,729		
9	Interest on under-collection due to cap														
10	Total DERP Incremental Costs		Sum Lines 1 through 9												
11	Revenue Collected		67,819		91,029		110,905		155,707		120,922		128,369		
12	SCERP Incremental Costs (Over) / Under Recovery		87,351		82,818		91,377		94,433		126,592		257,352		
13	(Over) / Under Cumulative Balance - February 2017		(19,538)		8,211		19,528		61,304		(135,670)		(128,983)		
14	Adjustments		391,293												
15	Cumulative SCERP Incremental Costs (Over) / Under Recovery		Line 14												
			371,761		379,971		399,499		460,803		325,133		196,151		
DERP Incremental Costs															
16	Purchased Power Agreements														
17	DER NEM Incentive		12,567		13,278		18,795		20,680		20,221		19,467		
18	Solar Rebate Program - Amortization		38,768		39,005		39,691		40,830		41,017		49,758		
19	Shared Solar Program														
20	Carrying Costs on Deferred Amounts		34,837		37,696		37,940		38,630		39,064		41,483		
21	NEM Avoided Capacity Costs		692		611		938		1,164		940		918		
22	NEM Meter Costs		2,084		2,406		2,937		3,243		3,143		2,979		
23	General and Administrative Expenses		68,679		33,885		16,746		31,246		31,424		30,540		
24	Interest on under-collection due to cap														
25	Total DERP Incremental Costs		Sum Lines 16 through 24												
26	Revenue Collected		157,637		126,882		117,047		135,397		135,809		145,146		
27	SCERP Incremental Costs (Over) / Under Recovery		254,025		270,804		256,788		243,445		257,516		255,877		
28	Adjustments		(96,388)		(143,922)		(139,721)		(108,048)		(121,707)		(74,684)		
29	Cumulative SCERP Incremental Costs (Over) / Under Recovery		Line 25 - Line 26												
			99,763		(44,160)		(183,881)		(291,929)		(412,505)		(448,552)		

Line No.	Description	Reference	Estimated March 2018		Estimated April 2018		Estimated May 2018		Estimated June 2018		Sixteen Months Ended June 2018	
			Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual
DERP Incremental Costs												
30	Purchased Power Agreements											
31	DER NEM Incentive		24,186		32,280		34,817		37,598		281,691	
32	Solar Rebate Program - Amortization		50,070		52,830		55,640		58,450		591,244	
33	Shared Solar Program											
34	Carrying Costs on Deferred Amounts		48,869		50,159		52,739		55,303		544,634	
35	NEM Avoided Capacity Costs		1,307		1,274		1,357		1,439		12,245	
36	NEM Meter Costs		3,320		1,720		1,788		1,857		34,696	
37	General and Administrative Expenses		35,802		42,031		42,031		42,031		756,953	
38	Interest on under-collection due to cap											
39	Total DERP Incremental Costs		Sum Lines 30 through 38		Sum Lines 30 through 38		Sum Lines 30 through 38		Sum Lines 30 through 38		Sum Lines 30 through 38	
40	Revenue Collected		163,503		180,294		188,372		196,678		2,221,516	
41	SCERP Incremental Costs (Over) / Under Recovery		256,291		253,219		253,395		253,599		3,424,832	
42	Adjustments		(92,788)		(72,925)		(65,023)		(56,921)		(1,203,316)	
43	Cumulative SCERP Incremental Costs (Over) / Under Recovery		Line 39 - Line 40		Line 39 - Line 40		Line 39 - Line 40		Line 39 - Line 40		Line 39 - Line 40	
			(54,134)		(614,264)		(679,287)		(736,208)		(736,208)	

DUKE ENERGY PROGRESS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
CALCULATION OF DERP INCREMENTAL COSTS (OVER) / UNDER RECOVERY
FOR THE PERIOD ENDING MARCH 2017 - JUNE 2018

1 Total DERP (Over) / Under Balance
March 2017 through
June 2018
(736,208)

Allocation of DERP Incremental (Over) / Under Recovery

	Firm Peak Demand - 2017	March 2017 through June 2018	Cost Allocated per Firm Peak Demand
2 Residential	59.11%		(435,200)
3 Commercial (General Service Demand /Non-Demand)	23.46%		(172,709)
4 Industrial (General Service Demand /Non-Demand)	17.43%		(128,300)
5 Total	100.00%	(736,208)	(736,209)

	Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month
6 Residential	\$ (435,200)	138,541	\$ (3.14)	\$ (0.26)
7 Commercial (General Service Demand /Non-Demand)	(172,709)	31,114	(5.55)	(0.46)
8 Industrial (General Service Demand /Non-Demand)	(128,300)	273	(469.96)	(39.16)
9 Total	\$ (736,209)	169,928		

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWh	CP %	Coincident Peak (CP) KWh	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

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Line No.	Description	Reference	Estimated March 2018		Estimated April 2018		Estimated May 2018		Estimated June 2018		Sixteen Months Ended June 2018
			Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018					
33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	275,401	
34	Shared Solar Program		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	275,401	
36	Total Projected System KWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004				
37	DERP Avoided System Costs (c/kWh)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013	0.0013				
38	Projected SC Retail Sales KWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646				
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,935	\$ 28,906				
40	Residential DER Avoided Costs Allocated by Firm CP	Line 39 * Line 1	\$ 2,554	\$ 4,484	\$ 4,346	\$ 4,099	\$ 17,074				
41	Projected SC Residential KWh Sales		143,961,446	157,681,226	140,660,012	176,681,596	2,747,591,564				
42	SC Residential DERP Avoided Cost (c/kWh)	Line 40 / Line 41 * 100	0.002	0.003	0.003	0.002	0.001				
43	SC Residential Rate Billed (c/kWh)		-	-	-	-	-				
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 / 100	\$ 2,554	\$ 4,484	\$ 4,346	\$ 4,099	\$ 17,074				
45	Cumulative SC Residential DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ 4,144	\$ 8,628	\$ 12,974	\$ 17,074	\$ 17,074				
46	SC Projected Residential KWh Sales Jul'18 - Jun'19						2,298,022,389				
47	SC Residential DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 45 / Line 46 * 100					0.001				

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWS	CP %	Coincident Peak (CP) KWS	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Line No.	Description	Reference	Actual March 2017	Actual April 2017	Actual May 2017	Actual June 2017	Actual July 2017	Actual August 2017
6	Purchased Power Agreements							
7	Shared Solar Program							
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ -	\$ -	\$ -	\$ 2,673	\$ -	\$ -
9	Total System kWh Sales		4,643,396,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580
10	DERP Avoided System Costs (c/kWh)	Line 8 / Line 9 * 100	-	-	-	0.0001	-	-
11	SC Retail Sales kWh		435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100	\$ -	\$ -	\$ -	\$ 252	\$ -	\$ -
13	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 2	\$ -	\$ -	\$ -	\$ 14	\$ -	\$ -
14	SC General Service (Non-Demand) kWh Sales		20,052,032	18,808,809	21,365,077	25,851,439	30,675,784	29,894,018
15	SC General Service (Non-Demand) DERP Avoided Cost (c/kWh)	Line 13 / Line 14 * 100	-	-	-	0.000	-	-
16	SC General Service (Non-Demand) Rate Billed (c/kWh)	(Line 15 - Line 16) * Line 14 / 100	\$ -	\$ -	\$ -	\$ 14	\$ -	\$ -
17	SC DERP Avoided Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ -	\$ -	\$ -	\$ 14	\$ -	\$ -
18	(Over) / Under Cumulative Balance - February 2017	Line 17 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ 14	\$ 14	\$ 14
19	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery		\$ -	\$ -	\$ -	\$ 14	\$ 14	\$ 14

Line No.	Description	Reference	Actual September 2017	Actual October 2017	Actual November 2017	Actual December 2017	Actual January 2018	Actual February 2018	Review Period Twelve Months Ended Feb-18
20	Purchased Power Agreements								
21	Shared Solar Program								
22	Total DERP Avoided Costs	Line 20 + Line 21	\$ -	\$ -	\$ -	\$ -	\$ 1,595	\$ 21,085	\$ 25,353
23	Total System kWh Sales		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
24	DERP Avoided System Costs (c/kWh)	Line 22 / Line 23 * 100	-	-	-	-	0.0000	0.0004	-
25	SC Retail Sales kWh		530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
26	SC DERP Avoided Costs	Line 24 * Line 25 / 100	\$ -	\$ -	\$ -	\$ -	\$ 167	\$ 2,296	\$ 2,715
27	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 26 * Line 2	\$ -	\$ -	\$ -	\$ -	\$ 9	\$ 125	\$ 148
28	SC General Service (Non-Demand) kWh Sales		29,789,139	24,412,350	20,946,710	22,308,770	31,747,164	24,711,597	300,562,889
29	SC General Service (Non-Demand) DERP Avoided Cost (c/kWh)	Line 27 / Line 28 * 100	-	-	-	-	0.000	0.001	0.000
30	SC General Service (Non-Demand) Rate Billed (c/kWh)	(Line 29 - Line 30) * Line 28 / 100	\$ -	\$ -	\$ -	\$ -	\$ 9	\$ 125	\$ 148
31	SC DERP Avoided Costs (Over) / Under Recovery	Line 31 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ -	\$ 23	\$ 148	\$ 148
32	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery		\$ -	\$ -	\$ -	\$ -	\$ 23	\$ 148	\$ 148

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (NON-DEMAND)
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm		CP %	CP %	Sixteen Months Ended June 2018
		Coincident Peak (CP) KWs	CP %	Coincident Peak (CP) KWs	CP %			
1	Residential	616,871	53.59%	708,895	59.11%			
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%			
3	General Service (Demand)	471,954	41.00%	424,824	35.43%			
4	Lighting	0	0.00%	0	0.00%			
5	Total SC	1,151,060	100.00%	1,199,206	100.00%			

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Line No.	Description	Reference	Estimated March 2018		Estimated April 2018		Estimated May 2018		Estimated June 2018		Sixteen Months Ended June 2018
			Estimated March 2018	CP %	Estimated April 2018	CP %	Estimated May 2018	CP %	Estimated June 2018	CP %	
33	Purchased Power Agreements		\$ 48,912		\$ 67,045		\$ 67,045		\$ 67,045		\$ 275,401
34	Shared Solar Program		\$ -		\$ -		\$ -		\$ -		\$ -
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912		\$ 67,045		\$ 67,045		\$ 67,045		\$ 275,401
36	Total/Projected System kWh Sales		4,653,962,859		4,508,800,151		4,560,908,805		5,344,565,169		81,510,821,004
37	DERP Avoided System Costs (c/kWh)	Line 35 / Line 36 * 100	0.0011		0.0015		0.0015		0.0013		0.0013
38	Projected SC Retail Sales kWh		411,013,563		510,104,190		500,130,869		552,817,186		8,352,100,646
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320		\$ 7,585		\$ 7,352		\$ 6,935		\$ 28,906
40	General Service (Non-Demand) DERP Avoided Costs Allocated by Firm CP	Line 39 * Line 2	\$ 236		\$ 414		\$ 401		\$ 379		\$ 1,578
41	Projected SC General Service (Non-Demand) kWh Sales		18,983,274		23,240,933		23,715,501		24,777,789		391,280,386
42	SC General Service (Non-Demand) DERP Avoided Cost (c/kWh)	Line 40 / Line 41 * 100	0.001		0.002		0.002		0.002		0.000
43	SC General Service (Non-Demand) Rate Billed (c/kWh)		-		-		-		-		-
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 / 100	\$ 236		\$ 414		\$ 401		\$ 379		\$ 1,578
45	Cumulative SC General Service (Non-Demand) DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ 384		\$ 798		\$ 1,200		\$ 1,578		\$ 1,578
46	SC Projected General Service (Non-Demand) kWh Sales Jul'18 - Jun'19										289,418,823
47	Cumulative SC General Service (Non-Demand) DERP Avoided Costs Increment / (Decrement) (c/kWh)	Line 45 / Line 46 * 100									0.001

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE (DEMAND)
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWs	CP %	Coincident Peak (CP) KWs	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Exhibit 13
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Line No.	Description	Reference	Estimated March 2018		Estimated April 2018		Estimated May 2018		Estimated June 2018		Sixteen Months Ended June 2018
			Estimated March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018					
33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401	
34	Shared Solar Program										
35	Total DERP Avoided Costs	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401	
36	Total Projected System kWh Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004				
37	DERP Avoided System Costs (¢/kWh)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013					
38	Projected SC Retail Sales kWh		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646				
39	SC DERP Avoided Costs	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,995	\$ 28,906				
40	General Service (Demand) DERP Avoided Costs Allocated by Firm CP	Line 39 * Line 3	\$ 1,530	\$ 2,687	\$ 2,604	\$ 2,457	\$ 10,253				
41	Projected SC General Service (Demand) kW Sales		657,929	769,162	700,963	853,386	11,098,556				
42	SC General Service (Demand) DERP Avoided Costs (¢/kWh)	Line 40 / Line 41 * 100	0.233	0.349	0.372	0.288	0.092				
43	SC General Service (Demand) Rate Billed (¢/kWh)		-	-	-	-	-				
44	SC DERP Avoided Costs (Over) / Under Recovery	(Line 42 - Line 43)*Line 41 /100	\$ 1,530	\$ 2,687	\$ 2,604	\$ 2,457	\$ 10,253				
45	Cumulative SC General Service (Demand) DERP Avoided Costs (Over) / Under Recovery	Line 44 + Prior Month Cum Bal	\$ 2,505	\$ 5,192	\$ 7,797	\$ 10,253	\$ 10,253				
46	SC Projected General Service (Demand) kW Sales Jul'18-Jun'19						9,217,404				
47	SC General Service (Demand) DERP Avoided Cost Increment / (Decrement) (¢/kW)	Line 45 / Line 46 * 100					0				

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm		Winter 2018 Firm	
		Concident Peak (CP) KWh	CP %	Concident Peak (CP) KWh	CP %	Concident Peak (CP) KWh	CP %
1	Residential	616,871	53.59%	708,895	59.11%	-	-
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%	-	-
3	General Service (Demand)	471,954	41.00%	424,824	35.43%	-	-
4	Lighting	0	0.00%	0	0.00%	-	-
5	Total SC	1,151,060	100.00%	1,199,206	100.00%	-	-

Line No.	Description	Reference		Actual		Actual		Actual		Review Period Twelve Months Ended Feb-18
		2017	2017	2017	2017	2017	2017	2017		
6	Purchased Power Agreements									
7	Shared Solar Program									
8	Total DERP Avoided Costs	Line 6 + Line 7		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Total System kWh Sales			4,643,399,027	4,187,641,398	4,764,300,151	5,213,164,766	6,176,683,274	5,920,108,580	
10	DERP Avoided Costs (C/KWh)	Line 8 / Line 9 * 100		-	-	-	0.0001	-	-	-
11	SC Retail Sales KWh			435,846,198	447,290,514	534,032,128	491,673,707	640,080,861	574,170,055	
12	SC DERP Avoided Costs	Line 10 * Line 11 / 100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Lighting DERP Avoided Costs Allocated by Firm CP	Line 12 * Line 4		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	SC Lighting kWh Sales			7,125,059	6,798,177	7,254,430	7,780,059	6,906,875	6,824,762	
15	SC Lighting DERP Avoided Costs (C/KWh)	Line 13 / Line 14 * 100		-	-	-	-	-	-	-
16	SC Lighting Rate Billed (C/KWh)									
17	SC DERP Avoided Costs (Over) / Under Recovery	Line 15 - Line 16 * Line 14 / 100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
18	(Over) / Under Cumulative Balance - February 2017	Prior Year Annual Filing		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Line 17 + Prior Month Cum Bal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Line No.	Description	Reference		Actual		Actual		Actual		Review Period Twelve Months Ended Feb-18
		2017	2017	2017	2017	2017	2017	2017		
20	Purchased Power Agreements									
21	Shared Solar Program									
22	Total DERP Avoided Costs	Line 20 + Line 21		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	Total System kWh Sales	Line 22 / Line 23 * 100		5,356,417,019	4,845,522,788	4,495,679,608	5,030,865,635	6,789,103,851	5,019,700,923	62,442,584,020
24	DERP Avoided Costs (C/KWh)			-	-	-	0.0000	-	0.0004	-
25	SC Retail Sales KWh			530,741,577	555,006,997	472,674,530	438,867,713	711,128,280	546,522,278	6,378,034,838
26	SC DERP Avoided Costs	Line 24 + Line 25 / 100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Lighting DERP Avoided Costs Allocated by Firm CP	Line 26 + Line 4		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	SC Lighting kWh Sales			6,762,845	7,045,388	6,780,127	6,503,445	6,784,249	6,687,917	83,253,333
29	SC Lighting DERP Avoided Costs (C/KWh)	Line 27 / Line 28 * 100		-	-	-	-	-	-	-
30	SC Lighting Rate Billed (C/KWh)									
31	SC DERP Avoided Costs (Over) / Under Recovery	Line 29 - Line 30 * Line 28 / 100		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	Cumulative SC Lighting DERP Avoided Costs (Over) / Under Recovery	Line 31 + Prior Month Cum Bal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS (OVER) / UNDER RECOVERY - LIGHTING
ACTUAL COSTS MARCH 2017 - JUNE 2018

Line No.	Class	Winter 2016 Firm		Winter 2017 Firm	
		Coincident Peak (CP) KWH	CP %	(CP) KWH	CP %
1	Residential	616,871	53.59%	708,895	59.11%
2	General Service (Non-Demand)	62,235	5.41%	65,487	5.46%
3	General Service (Demand)	471,954	41.00%	424,824	35.43%
4	Lighting	0	0.00%	0	0.00%
5	Total SC	1,151,060	100.00%	1,199,206	100.00%

Exhibit 13
Page 4b of 4
DOCKET NO 2018-1-E

Line No.	Description	Reference	Estimated		Estimated		Estimated		Sixteen Months Ended June 2018
			March 2018	April 2018	May 2018	June 2018			
33	Purchased Power Agreements		\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401	
34	Shared Solar Program		-	-	-	-	-	-	
35	Total DERP AVOIDED COSTS	Line 33 + Line 34	\$ 48,912	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 275,401	
36	Total Projected System KWH Sales		4,653,962,859	4,508,800,151	4,560,908,805	5,344,565,169	81,510,821,004		
37	DERP AVOIDED COSTS (C/KWH)	Line 35 / Line 36 * 100	0.0011	0.0015	0.0015	0.0013	0.0013		
38	Projected SC Retail Sales KWH		411,013,563	510,104,190	500,130,869	552,817,186	8,352,100,646		
39	SC DERP AVOIDED COSTS	Line 37 * Line 38 / 100	\$ 4,320	\$ 7,585	\$ 7,352	\$ 6,935	\$ 28,906		
40	Lighting DERP AVOIDED COSTS ALLOCATED BY FIRM CP	Line 39 * Line 4	-	-	-	-	-		
41	Projected SC Lighting KWH Sales		6,689,961	7,700,522	7,840,804	8,158,978	113,643,598		
42	SC Lighting DERP AVOIDED COSTS (C/KWH)	Line 40 / Line 41 * 100	0.000	0.000	0.000	0.000	0.000		
43	SC Lighting Rate Billed (C/KWH)		-	-	-	-	-		
44	SC DERP AVOIDED COSTS (OVER) / UNDER RECOVERY	(Line 42 - Line 43) * Line 41 / 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
45	Cumulative SC Lighting DERP AVOIDED COSTS (OVER) / UNDER RECOVERY	Line 44 + Prior Month Cum Bal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
46	SC Projected Lighting KWH Sales Jul'18-Jun'19							95,291,579	
47	SC Lighting DERP AVOIDED INCREMENT / (DECREMENT) (C/KWH)	Line 45 / Line 46 * 100						0.000	

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM AVOIDED COSTS
FOR THE 12 MONTHS JULY 2018 TO JUNE 2019

Line No.	Class	Winter 2017 Firm		CP %
		Coincident Peak (CP) KWh	CP %	
1	Residential	708,895	59.11%	
2	General Service (Non-Demand)	65,487	5.46%	
3	General Service (Demand)	424,824	35.43%	
4	Lighting	0	0.00%	
5	Total SC	1,199,207	100.00%	

Line No.	Description	Reference	Billing Period												
			July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19
6	Purchased Power Agreements		\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 802,533
7	Shared Solar Program		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Total DERP Avoided Costs	Line 6 + Line 7	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 67,045	\$ 802,533
9	Projected Total System Sales		6,035,990,340	6,046,836,934	5,391,900,583	4,610,783,803	4,534,155,911	5,201,927,524	6,139,263,323	6,25,682,104	580,984,433	525,432,978	488,237,837	542,698,205	6,698,199,477
10	DERP Avoided System Costs (c/Kwh)	Line 8 / Line 9 *100	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11	Projected SC Retail Sales	Line 10 * Line 11 /100	\$ 6,819	\$ 6,937	\$ 7,224	\$ 7,640	\$ 7,219	\$ 6,995	\$ 6,886	\$ 7,170	\$ 7,185	\$ 7,551	\$ 7,309	\$ 6,861	\$ 85,797
12	SC DERP Avoided Costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Line No.	Description	Reference	Billing Period												
			January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19						
13	Purchased Power Agreements		\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 802,533	
14	Shared Solar Program		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15	Total DERP Avoided Costs	Line 13 + Line 14	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 66,710	\$ 802,533	
16	Projected Total System Sales		5,928,131,992	5,371,085,870	5,087,321,740	4,691,525,091	4,633,526,887	5,303,092,725	6,111,904,722	5,772,254,045	547,947,253	531,038,947	507,654,583	545,438,047	6,698,199,477
17	DERP Avoided System Costs (c/Kwh)	Line 15 / Line 16 *100	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
18	Projected SC Retail Sales	Line 17 * Line 18 /100	\$ 6,886	\$ 7,170	\$ 7,185	\$ 7,551	\$ 7,309	\$ 6,861	\$ 6,886	\$ 7,170	\$ 7,185	\$ 7,551	\$ 7,309	\$ 6,861	\$ 85,797
19	SC DERP Avoided Costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Line No.	Description	Reference	Billing Period												
			January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19						
20	Residential		Total Line 19 * Line 1												\$ 50,718
21	General Service (Non-Demand)		Total Line 19 * Line 2												4,685
22	General Service (Demand)		Total Line 19 * Line 3												30,394
23	Lighting		Total Line 19 * Line 4												-
24	Total SC		Sum Lines 20 through 23												\$ 85,797
25	Residential		Projected SC Retail Sales KWh for the 12 month period												2,298,022,389
26	General Service (Non-Demand)														289,418,823
27	General Service (Demand)														4,015,466,686
28	Lighting														95,291,579
29	Total SC		Sum Lines 25 through 28												6,698,199,477

Line No.	Description	Reference	Billing Period												
			January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19						
30	Residential		Line 20 / Line 25 * 100												0.002
31	General Service (Non-Demand)		Line 21 / Line 26 * 100												0.002
32	Lighting		Line 22 / Line 27 * 100												0.000

Line No.	Description	Reference	Billing Period												
			January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	Twelve Months Ended Jun-19						
33	Projected SC KW Sales (General Service demand)		Line 22 / Line 33 * 100												9,217,404
34	General Service (Demand) charge for SC DERP Avoided Costs														0

DUKE ENERGY PROGRESS, INC.
SOUTH CAROLINA RETAIL FUEL CASE
DERP NEM Incentive Calculation

Line	Description	Reference	Residential (Rate Schedule RES)	General Service (Rate Schedule SCSGS)
1	Representative NEM Customer bill without solar		\$ 1,599.88	\$ 1,712.63
2	Representative NEM Customer bill WITH solar		\$ 1,081.69	\$ 1,177.93
3	Difference	Line 1 - 2	\$ 518.18	\$ 534.70
4	Representative annual solar production kWhs		4720	4720
5	Value of solar in dollars per kWh	Proposed	0.05036	0.05036
6	Net Benefits delivered by solar production	Line 4 * 5	\$ 237.68	\$ 237.68
7	Under-recovered revenue from NEM Customer	Line 3 - 6	\$ 280.50	\$ 297.02
8	Annual solar production kWhs	Line 4	4720	4720
9	DERP NEM Incentive in dollars per kWh	Line 7 / Line 8	\$ 0.05943	\$ 0.06293